

SEARCH REQUEST FORM

Requestor's
Name: _____

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Number: _____

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Art Unit: _____

Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).

STAFF USE ONLY

Date completed: 03-14-05

Searcher: Beverly e 4994

Terminal time: 20

Elapsed time: _____

CPU time: _____

Total time: 23

Number of Searches: _____

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Search Site

_____ STIC

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_____ Pre-S

Type of Search

_____ N.A. Sequence

_____ A.A. Sequence

_____ Structure

_____ Bibliographic

Vendors

_____ IG Suite

_____ STN

_____ Dialog

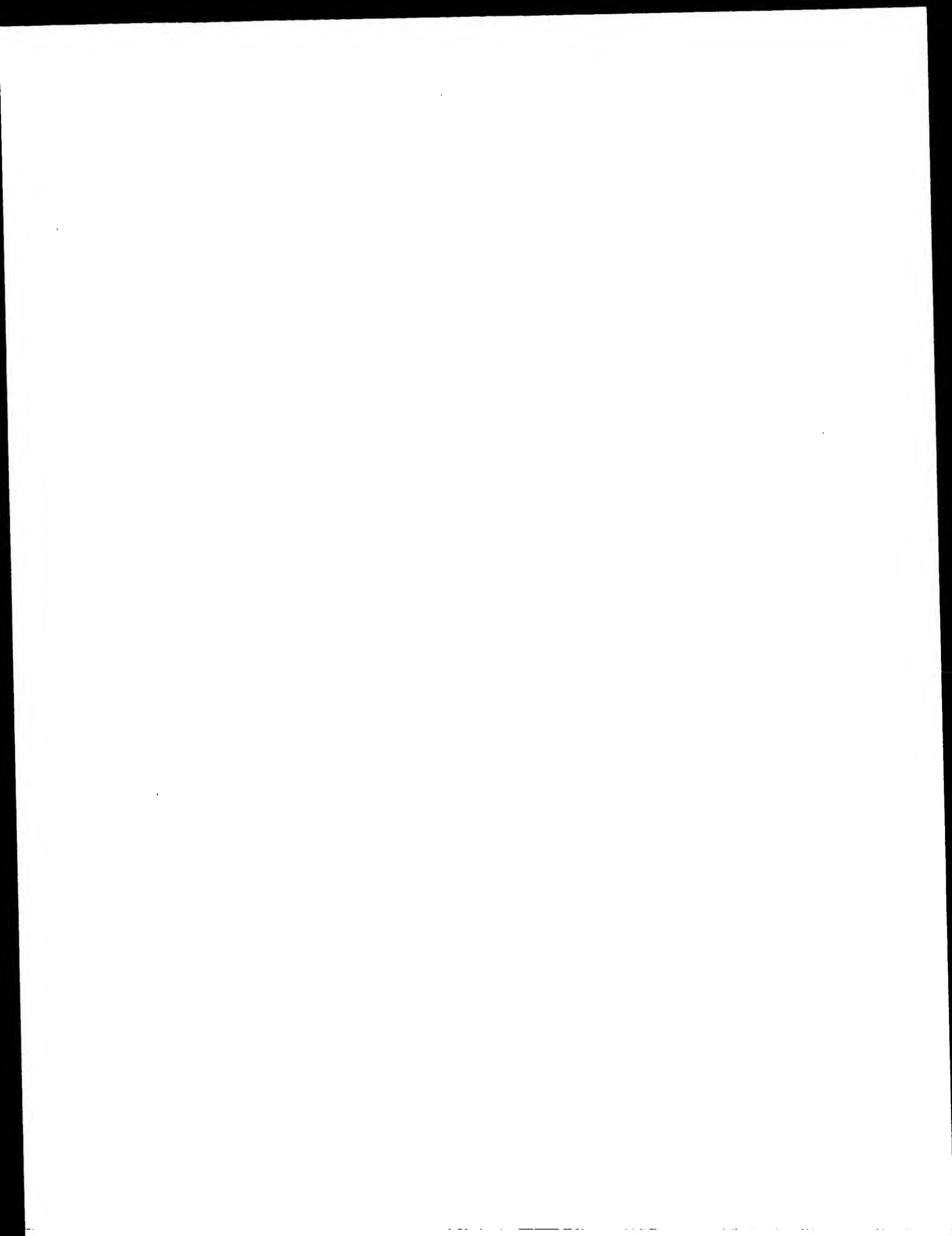
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_____ DARC/Questel

✓ Other CGN



STIC-Biotech/ChemLib

87941

From: Schultz, James
Sent: Monday, March 03, 2003 11:08 AM
To: STIC-Biotech/ChemLib
Subject: sequence search request for 10/001,844

Hello,

I need a length limited nucleotide sequence search performed on SEQ ID NO:3 (1576 nt long) in the above entitled case, where the maximum size of the returned hit is no longer than 50 nucleotides.

Thank you very much,

Doug Schultz

J. Douglas Schultz, Ph.D.
AU 1635 (Biotechnology)
Patent Examiner
United States Patent and Trademark Office
(703) 308-9355
(703) 746-3973 (fax)
Office: CM1 12E18
Mail: CM1 11E12

Point of Contact:
Beverly Shears
Technical Info. Specialist
CM1 1E05 Tel: 308-4994

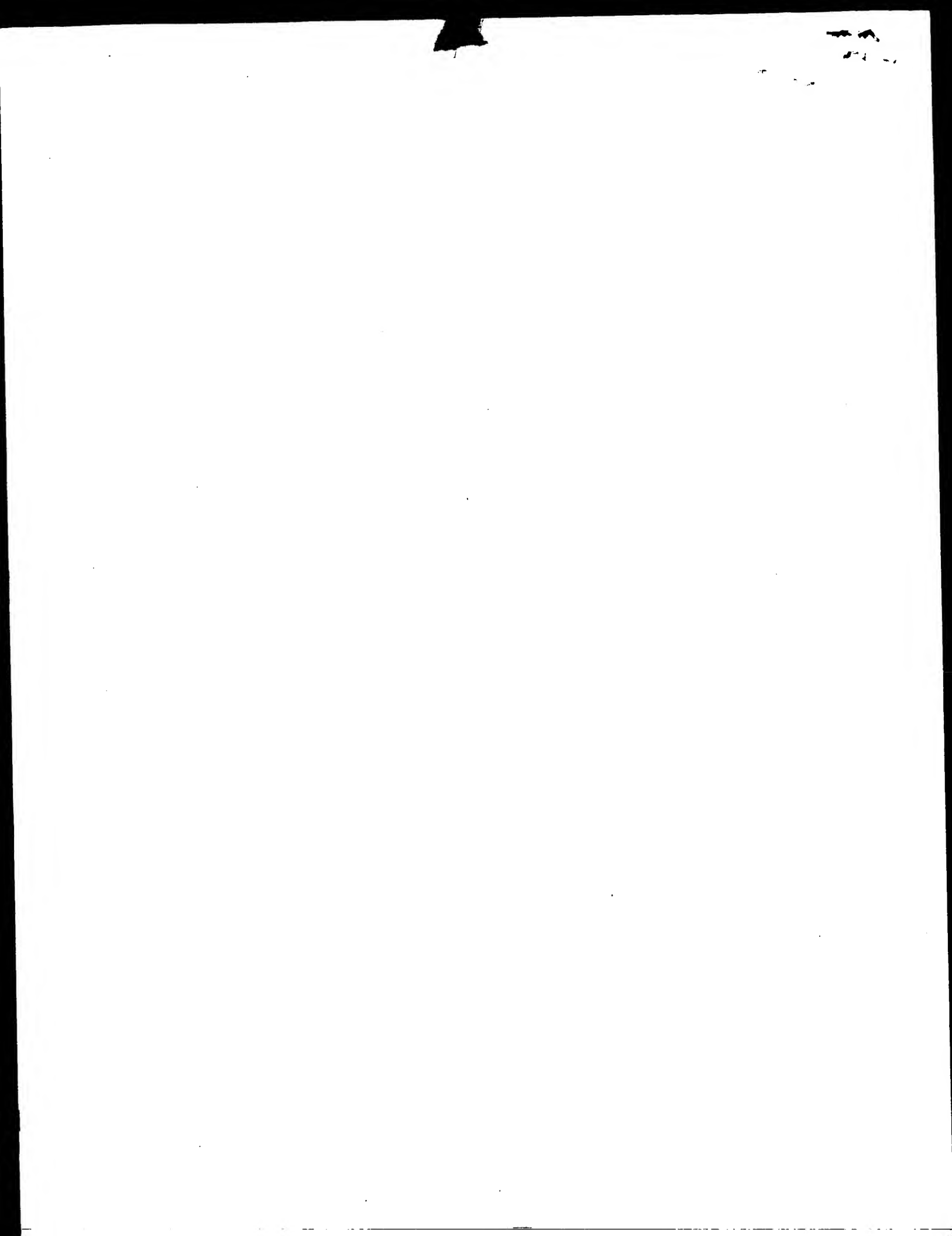
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Phone: _____
Location: _____
Date Picked Up: _____
Date Completed: _____
Searcher Prep/Review: _____
Clerical: _____
Online time: _____

TYPE OF SEARCH:

NA Sequences: _____
AA Sequences: _____
Structures: _____
Bibliographic: _____
Litigation: _____
Full text: _____
Patent Family: _____
Other: _____

VENDOR/COST (where applic.)

STN: _____
DIALOG: _____
Questel/Orbit: _____
DRLink: _____
Lexis/Nexis: _____
Sequence Sys.: _____
WWW/Internet: _____
Other (specify): _____



Fri Mar 14 08:53:17 2003

us-10-001-844-3.max.rmpm

GenCore version 5.1.4.p5.4578
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OM nucleic - nucleic search, using sw model

Run on: March 13, 2003, 21:54:09 ; Search time 3749 Seconds
(without alignments)
10569.368 Million cell updates/sec

Title: US-10-001-844-3

Perfect score: 1576
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 24791104 seqs, 12571243825 residues

Total number of hits satisfying chosen parameters: 12114646

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	31.8	2.0	45	US-09-590-211A-9	Sequence 9, Appl1
3	31.8	2.0	45	US-09-782-650-16	Sequence 16, Appl1
4	28.4	1.8	42	US-09-590-211-8	Sequence 8, Appl1
5	28.8	1.8	42	US-09-590-211A-8	Sequence 8, Appl1
6	28.2	1.8	50	US-10-195-071-14	Sequence 14, Appl1
7	28.2	1.8	50	US-10-195-071-14	Sequence 14, Appl1
8	28.2	1.8	50	US-10-195-071-14	Sequence 14, Appl1
9	27.4	1.7	39	US-09-590-211-7	Sequence 7, Appl1
10	27.4	1.7	39	US-09-590-211A-7	Sequence 7, Appl1
11	26.6	1.7	36	US-09-590-211-6	Sequence 6, Appl1
12	26.6	1.7	36	US-09-590-211A-6	Sequence 6, Appl1
13	26.4	1.7	36	US-09-590-211A-2	Sequence 2, Appl1
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15	26.4	1.7	36	US-09-590-211A-2	Sequence 2, Appl1
16	26.4	1.7	36	US-09-590-211A-2	Sequence 2, Appl1
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20	26.4	1.7	36	US-09-590-211A-2	Sequence 2, Appl1
21	25.6	1.6	50	US-08-715-713-17	Sequence 17, Appl1

Sehulitz, J.
10/001844
Seq. ID 3 Interf

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C 332	20.4	1.3	40	13	US-08-962-012-37	Sequence 37, Appli	C 405	20.2	1.3	32	40	US-10-147-463-31	Sequence 31, Appli
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C 339	20.4	1.3	41	40	US-10-144-360-20	Sequence 20, Appli	C 412	20.2	1.3	40	18	US-09-411-999-60	Sequence 60, Appli
C 340	20.4	1.3	41	40	US-10-227-563-14922	Sequence 14922, A	C 413	20.2	1.3	40	18	US-09-404-520-34796	Sequence 34796, A
C 341	20.4	1.3	42	39	US-10-061-071-76	Sequence 76, Appli	C 414	20.2	1.3	41	16	US-09-953-198-338	Sequence 338, App
C 342	20.4	1.3	44	5	US-08-131-104-2	Sequence 2, Appli	C 415	20.2	1.3	41	36	US-09-953-198-684	Sequence 684, App
C 343	20.4	1.3	45	1	PCT-US02-25940-12335	Sequence 12335, A	C 416	20.2	1.3	45	1	PCT-US00-11500-35	Sequence 35, Appli
C 344	20.4	1.3	45	42	US-10-227-563-12335	Sequence 12335, A	C 417	20.2	1.3	45	26	US-09-709-238-122	Sequence 122, App
C 345	20.4	1.3	45	42	PCT-US02-25943-40405	Sequence 40405, A	C 418	20.2	1.3	45	32	US-09-857-723-202	Sequence 202, App
C 346	20.4	1.3	46	42	US-10-227-565-40405	Sequence 40405, A	C 419	20.2	1.3	45	35	US-09-941-992-122	Sequence 122, App
C 347	20.4	1.3	47	6	US-08-233-586A-7	Sequence 7, Appli	C 420	20.2	1.3	45	37	US-09-989-293A-122	Sequence 122, App
C 348	20.4	1.3	48	1	PCT-US02-25940-11618	Sequence 11618, A	C 421	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 349	20.4	1.3	48	42	US-10-227-563-11618	Sequence 11618, A	C 422	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 350	20.4	1.3	49	29	US-09-740-002-9	Sequence 9, Appli	C 423	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 351	20.4	1.3	50	11	US-08-781-986A-5127	Sequence 5127, Ap	C 424	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 352	20.4	1.3	50	13	US-08-956-171C-5127	Sequence 5127, Ap	C 425	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 353	20.4	1.3	50	13	US-08-956-171C-5127	Sequence 5127, Ap	C 426	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 354	20.4	1.3	50	13	US-08-956-171C-5127	Sequence 5127, Ap	C 427	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 355	20.4	1.3	50	13	US-08-956-171C-5127	Sequence 5127, Ap	C 428	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 356	20.4	1.3	50	28	US-09-702-690-3	Sequence 3, Appli	C 429	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 357	20.4	1.3	50	29	US-09-755-374A-7332	Sequence 7332, Ap	C 430	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 358	20.4	1.3	50	29	US-09-755-374A-14160	Sequence 14160, A	C 431	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 359	20.4	1.3	50	29	US-09-755-374A-16320	Sequence 16320, A	C 432	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 360	20.4	1.3	50	29	US-09-755-374A-27180	Sequence 27180, A	C 433	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 361	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 434	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 362	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 435	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 363	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 436	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 364	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 437	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 365	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 438	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 366	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 439	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 367	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 440	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 368	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 441	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 369	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 442	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 370	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 443	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 371	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 444	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 372	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 445	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 373	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 446	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 374	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 447	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 375	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 448	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 376	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 449	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 377	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 450	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 378	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 451	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 379	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 452	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 380	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 453	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 381	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 454	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 382	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 455	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 383	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 456	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 384	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 457	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 385	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 458	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App
C 386	20.4	1.3	50	29	US-09-386-196F-67178	Sequence 67178, A	C 459	20.2	1.3	45	37	US-09-989-721-122	Sequence 122, App

460	20	1.3	45	37	US-09-992-521-122	Sequence 122, App	C 533	19.8	1.3	43	1	PCT-US02-25943-18488	Sequence 18488, A
461	20	1.3	45	37	US-09-992-598-122	Sequence 122, App	C 534	19.8	1.3	43	18	US-09-404-549-4257	Sequence 4257, App
462	20	1.3	45	37	US-09-993-469-122	Sequence 122, App	C 535	19.8	1.3	43	18	US-09-404-549-4257	Sequence 4257, App
463	20	1.3	45	37	US-09-993-583-122	Sequence 122, App	C 536	19.8	1.3	43	42	US-10-227-565-18488	Sequence 18488, A
464	20	1.3	45	37	US-09-993-604-122	Sequence 122, App	C 537	19.8	1.3	43	42	PCT-US02-25943-30397	Sequence 30397, A
465	20	1.3	45	37	US-09-993-667-122	Sequence 122, App	C 538	19.8	1.3	43	44	US-10-227-565-30397	Sequence 30397, A
466	20	1.3	45	37	US-09-993-687-122	Sequence 122, App	C 539	19.8	1.3	43	46	US-09-230-930B-2	Sequence 2, App11
467	20	1.3	45	37	US-09-993-748-122	Sequence 122, App	C 540	19.8	1.3	46	16	US-09-230-930B-2	Sequence 2, App11
468	20	1.3	45	37	US-09-994-054-122	Sequence 122, App	C 541	19.8	1.3	47	1	PCT-US02-25943-462	Sequence 462, App
469	20	1.3	45	37	US-09-996-243-122	Sequence 122, App	C 542	19.8	1.3	47	1	PCT-US02-25943-28002	Sequence 28002, A
470	20	1.3	45	37	US-09-997-333-122	Sequence 122, App	C 543	19.8	1.3	47	1	PCT-US02-25943-60375	Sequence 60375, A
471	20	1.3	45	37	US-09-997-349-122	Sequence 122, App	C 544	19.8	1.3	47	42	US-10-227-565-462	Sequence 462, App
472	20	1.3	45	37	US-09-997-384-122	Sequence 122, App	C 545	19.8	1.3	47	42	US-10-227-565-28002	Sequence 28002, A
473	20	1.3	45	37	US-09-997-428-122	Sequence 122, App	C 546	19.8	1.3	47	42	US-10-227-565-60375	Sequence 60375, A
474	20	1.3	45	37	US-09-997-440-122	Sequence 122, App	C 547	19.8	1.3	49	29	US-09-724-866-10697	Sequence 10697, A
475	20	1.3	45	37	US-09-997-514-122	Sequence 122, App	C 548	19.8	1.3	49	29	US-09-724-866-10697	Sequence 10697, A
476	20	1.3	45	37	US-09-997-529-122	Sequence 122, App	C 549	19.8	1.3	49	61	US-60-171-432-10697	Sequence 10697, A
477	20	1.3	45	37	US-09-997-542-122	Sequence 122, App	C 550	19.8	1.3	50	1	PCT-US02-25940-9874	Sequence 9874, App
478	20	1.3	45	37	US-09-997-559-122	Sequence 122, App	C 551	19.8	1.3	50	1	PCT-US02-25940-11692	Sequence 11692, A
479	20	1.3	45	37	US-09-997-573-122	Sequence 122, App	C 552	19.8	1.3	50	1	PCT-US02-25942-11694	Sequence 11694, A
480	20	1.3	45	37	US-09-997-585-122	Sequence 122, App	C 553	19.8	1.3	50	18	US-09-498-485A-2374	Sequence 2374, App
481	20	1.3	45	37	US-09-997-601-122	Sequence 122, App	C 554	19.8	1.3	50	29	US-09-755-374A-14800	Sequence 14800, A
482	20	1.3	45	37	US-09-997-614-122	Sequence 122, App	C 555	19.8	1.3	50	29	US-09-755-374A-14802	Sequence 14802, A
483	20	1.3	45	37	US-09-997-628-122	Sequence 122, App	C 556	19.8	1.3	50	29	US-09-755-374A-17394	Sequence 17394, A
484	20	1.3	45	37	US-09-997-653-122	Sequence 122, App	C 557	19.8	1.3	50	29	US-10-227-563-9874	Sequence 9874, App
485	20	1.3	45	37	US-09-997-666-122	Sequence 122, App	C 558	19.8	1.3	50	42	US-10-227-567-11692	Sequence 11692, A
486	20	1.3	45	37	US-09-997-683-122	Sequence 122, App	C 559	19.8	1.3	50	42	US-10-227-567-11694	Sequence 11694, A
487	20	1.3	45	37	US-09-997-688-122	Sequence 122, App	C 560	19.8	1.2	30	1	PCT-US02-25943-43543	Sequence 43543, A
488	20	1.3	45	37	US-09-998-041-122	Sequence 122, App	C 561	19.6	1.2	30	42	US-10-227-565-43543	Sequence 43543, A
489	20	1.3	45	37	US-09-998-041-122	Sequence 122, App	C 562	19.6	1.2	34	1	PCT-US02-25942-5013	Sequence 5013, App
490	20	1.3	45	37	US-09-998-041-122	Sequence 122, App	C 563	19.6	1.2	34	1	PCT-US02-25943-49297	Sequence 49297, A
491	20	1.3	45	37	US-09-998-041-122	Sequence 122, App	C 564	19.6	1.2	34	42	US-10-227-565-49297	Sequence 49297, A
492	20	1.3	45	39	US-10-072-068-9	Sequence 9, App1	C 565	19.6	1.2	34	42	US-10-227-565-49297	Sequence 49297, A
493	20	1.3	45	42	US-10-211-069-35	Sequence 35, App1	C 566	19.6	1.2	34	42	US-10-227-565-49297	Sequence 49297, A
494	20	1.3	45	42	US-10-219-538-122	Sequence 122, App	C 567	19.6	1.2	35	42	PCT-US02-25943-16824	Sequence 16824, A
495	20	1.3	46	18	PCT-US02-25943-2396	Sequence 2396, App	C 568	19.6	1.2	35	42	US-10-227-565-16824	Sequence 16824, A
496	20	1.3	46	23	US-09-605-698-11039	Sequence 11039, A	C 569	19.6	1.2	41	1	US-08-472-801-184	Sequence 184, App
497	20	1.3	46	42	US-10-227-565-2396	Sequence 2396, App	C 570	19.6	1.2	41	10	US-08-668-225-184	Sequence 184, App
498	20	1.3	47	1	PCT-US02-25943-39165	Sequence 39165, A	C 571	19.6	1.2	41	18	US-09-404-520-38730	Sequence 38730, A
499	20	1.3	47	23	US-09-606-680-776	Sequence 776, App	C 572	19.6	1.2	41	18	US-09-404-520-38730	Sequence 38730, A
500	20	1.3	47	30	US-09-785-632A-6	Sequence 6, App1	C 573	19.6	1.2	41	42	US-10-227-563-12752	Sequence 12752, A
501	20	1.3	47	30	US-09-785-632A-6	Sequence 6, App1	C 574	19.6	1.2	41	42	US-10-227-563-12752	Sequence 12752, A
502	20	1.3	47	30	US-09-785-632A-6	Sequence 6, App1	C 575	19.6	1.2	41	42	US-10-227-563-12752	Sequence 12752, A
503	20	1.3	47	42	US-10-227-765-6	Sequence 6, App1	C 576	19.6	1.2	43	8	PCT-US02-25943-3376	Sequence 3376, App
504	20	1.3	47	42	US-10-227-765-6	Sequence 6, App1	C 577	19.6	1.2	43	8	US-08-472-801-1382	Sequence 1382, App
505	20	1.3	47	42	US-10-227-565-27146	Sequence 27146, A	C 578	19.6	1.2	43	10	US-08-668-235-1382	Sequence 1382, App
506	20	1.3	48	1	PCT-US02-25943-33442	Sequence 33442, A	C 579	19.6	1.2	43	42	US-10-227-565-6376	Sequence 6376, App
507	20	1.3	48	42	US-10-227-565-33442	Sequence 33442, A	C 580	19.6	1.2	44	1	PCT-US02-25940-12751	Sequence 12751, A
508	20	1.3	49	27	US-09-699-011A-134	Sequence 134, App	C 581	19.6	1.2	44	8	US-08-472-801-438	Sequence 438, App
509	20	1.3	50	1	PCT-US02-25943-56525	Sequence 56525, A	C 582	19.6	1.2	44	10	US-08-668-235-439	Sequence 439, App
510	20	1.3	50	10	US-08-672-571-13	Sequence 13, App1	C 583	19.6	1.2	44	42	US-10-227-563-12751	Sequence 12751, A
511	20	1.3	50	11	US-08-798-074-12964	Sequence 12964, A	C 584	19.6	1.2	44	42	US-10-227-563-30167	Sequence 30167, A
512	20	1.3	50	11	US-08-798-074-12964	Sequence 12964, A	C 585	19.6	1.2	44	42	US-10-227-563-30167	Sequence 30167, A
513	20	1.3	50	29	US-09-755-374A-1888	Sequence 1888, App	C 586	19.6	1.2	45	18	US-09-404-520-43763	Sequence 43763, A
514	20	1.3	50	29	US-09-755-374A-16572	Sequence 16572, A	C 587	19.6	1.2	45	33	US-09-668-758-9	Sequence 9, App1
515	20	1.3	50	29	US-09-755-374A-16572	Sequence 16572, A	C 588	19.6	1.2	45	33	US-09-668-758-9	Sequence 9, App1
516	20	1.3	50	29	US-09-755-374A-16572	Sequence 16572, A	C 589	19.6	1.2	46	30	US-09-753-037-8	Sequence 30305, A
517	20	1.3	50	29	US-09-755-374A-16572	Sequence 16572, A	C 590	19.6	1.2	47	42	US-10-227-565-30505	Sequence 30505, A
518	20	1.3	50	29	US-09-755-374A-16572	Sequence 16572, A	C 591	19.6	1.2	47	42	US-10-227-565-30505	Sequence 30505, A
519	20	1.3	50	29	US-09-755-374A-16572	Sequence 16572, A	C 592	19.6	1.2	47	42	US-10-227-565-30505	Sequence 30505, A
520	20	1.3	50	29	US-09-755-374A-16572	Sequence 16572, A	C 593	19.6	1.2	47	42	US-10-227-565-30505	Sequence 30505, A
521	20	1.3	50	29	US-09-755-374A-16572	Sequence 16572, A	C 594	19.6	1.2	47	42	US-10-227-565-30505	Sequence 30505, A
522	20	1.3	50	29	US-09-755-374A-16572	Sequence 16572, A	C 595	19.6	1.2	47	42	US-10-227-565-30505	Sequence 30505, A
523	20	1.3	50	29	US-09-755-374A-16572	Sequence 16572, A	C 596	19.6	1.2	47	42	US-10-227-565-30505	Sequence 30505, A
524	20	1.3	50	29	US-09-755-374A-16572	Sequence 16572, A	C 597	19.6	1.2	47	42	US-10-227-565-30505	Sequence 30505, A
525	20	1.3	50	29	US-09-755-374A-16572	Sequence 16572, A	C 598	19.6	1.2	47	42	US-10-227-565-30505	Sequence 30505, A
526	20	1.3	50	29	US-09-755-374A-16572	Sequence 16572, A	C 599	19.6	1.2	47	42	US-10-227-565-30505	Sequence 30505, A
527	20	1.3	50	29	US-09-755-374A-16572	Sequence 16572, A	C 600	19.6	1.2	47	42	US-10-227-565-30505	Sequence 30505, A
528	20	1.3	50	29	US-09-755-374A-16572	Sequence 16572, A	C 601	19.6	1.2	47	42	US-10-227-565-30505	Sequence 30505, A
529	20	1.3	50	29	US-09-755-374A-16572	Sequence 16572, A	C 602	19.6	1.2	47	42	US-10-227-565-30505	Sequence 30505, A
530	20	1.3	50	29	US-09-755-374A-16572	Sequence 16572, A	C 603	19.6	1.2	47	42	US-10-227-565-30505	Sequence 30505, A
531	20	1.3	50	29	US-09-755-374A-16572	Sequence 16572, A	C 604	19.6	1.2	47	42	US-10-227-565-30505	Sequence 30505, A
532	20	1.3	50	29	US-09-755-374A-16572	Sequence 16572, A	C 605	19.6	1.2	47	42	US-10-227-565-30505	Sequence 30505, A
533	20	1.3	50	29	US-09-755-374A-16572	Sequence 16572, A	C 606	19.6	1.2	47	42	US-10-227-565-30505	Sequence 30505, A

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C 753	19.2	1.2	49	31	US-09-825-790-903	Sequence 903, App	C 826	19	1.2	44	1	PCT-US02-25940-11650	Sequence 11650, A
C 754	19.2	1.2	49	37	US-09-993-346-405	Sequence 405, App	827	19	1.2	44	1	PCT-US02-25943-40980	Sequence 40980, A
C 755	19.2	1.2	49	39	US-10-088-966-512	Sequence 512, App	828	19	1.2	44	18	US-09-423-041A-38	Sequence 38, App
C 756	19.2	1.2	49	42	US-10-227-563-20906	Sequence 20906, A	C 829	19	1.2	44	42	US-10-227-563-11650	Sequence 11650, A
C 757	19.2	1.2	49	76	US-60-324-185-4723	Sequence 4723, App	C 830	19	1.2	44	42	US-10-227-565-40788	Sequence 40788, A
C 758	19.2	1.2	50	1	PCT-US01-47856-3427	Sequence 3427, App	C 831	19	1.2	45	1	PCT-US02-25940-87980	Sequence 8798, App
C 759	19.2	1.2	50	1	PCT-US02-25943-46863	Sequence 46863, A	C 832	19	1.2	45	1	PCT-US02-25943-45868	Sequence 45868, A
C 760	19.2	1.2	50	24	US-09-628-860-6952	Sequence 6952, App	C 833	19	1.2	45	1	PCT-US02-25943-7	Sequence 7, App
C 761	19.2	1.2	50	29	US-09-726-173A-3964	Sequence 3964, App	C 834	19	1.2	45	6	US-08-222-612A-13	Sequence 13, App
C 762	19.2	1.2	50	29	US-09-755-374A-1684	Sequence 1684, App	C 835	19	1.2	45	6	US-08-222-612A-13	Sequence 14, App
C 763	19.2	1.2	50	29	US-09-755-374A-2002	Sequence 2002, App	C 836	19	1.2	45	12	US-08-813-781A-7	Sequence 7, App
C 764	19.2	1.2	50	29	US-09-755-374A-2004	Sequence 2004, App	C 837	19	1.2	45	12	US-08-813-781B-7	Sequence 7, App
C 765	19.2	1.2	50	29	US-09-755-374A-5836	Sequence 5836, App	C 838	19	1.2	45	12	US-08-813-781C-7	Sequence 7, App
C 766	19.2	1.2	50	29	US-09-755-374A-6533	Sequence 6533, App	C 839	19	1.2	45	13	US-08-943-086A-7	Sequence 7, App
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C 807	19.2	1.2	50	40	PCT-US02-25940-24521	Sequence 24521, A	C 880	19	1.2	50	40	US-10-227-565-32194	Sequence 32194, A
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C 816	19.2	1.2	50	41	US-09-749-873-105	Sequence 105, App	C 889	19	1.2	33	42	PCT-US02-25943-54033	Sequence 54033, A
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C 907	18.8	1.2	40	1	PCT-US02-25943-2589
C 908	18.8	1.2	40	8	US-08-472-801-14
C 909	18.8	1.2	40	10	US-08-668-235-14
C 910	18.8	1.2	40	17	US-09-324-672A-390
C 911	18.8	1.2	40	32	US-09-833-203-17
C 912	18.8	1.2	40	42	US-10-227-565-2589
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C 915	18.8	1.2	41	6	US-08-222-235-1
C 916	18.8	1.2	41	6	US-08-222-235-5
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C 918	18.8	1.2	41	11	US-08-781-168-1
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C 920	18.8	1.2	41	12	US-08-896-535-25
C 921	18.8	1.2	41	15	US-09-130-394-1
C 922	18.8	1.2	41	15	US-09-130-394-5
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C 925	18.8	1.2	41	18	US-09-404-520-33389
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C 933	18.8	1.2	42	1	PCT-US02-25943-56064
C 934	18.8	1.2	42	7	US-08-500-726A-43
C 935	18.8	1.2	42	29	US-09-747-377-486
C 936	18.8	1.2	42	32	US-09-833-203-9
C 937	18.8	1.2	42	32	US-09-833-203-8
C 938	18.8	1.2	42	38	US-10-033-832-946
C 939	18.8	1.2	42	40	US-10-105-613-486
C 940	18.8	1.2	42	40	US-10-121-258-65
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C 943	18.8	1.2	43	1	PCT-US02-25940-11913
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C 946	18.8	1.2	43	28	US-09-701-001B-55
C 947	18.8	1.2	43	42	US-10-227-563-11913
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C 961	18.8	1.2	45	58	US-60-141-728-24
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C 963	18.8	1.2	46	1	PCT-US02-25943-13274
C 964	18.8	1.2	46	1	PCT-US02-25943-15255
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C 968	18.8	1.2	46	42	US-10-227-565-13274A
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979	18.8	1.2	47	18	US-09-422-978-2116	Sequence 1527, Ap
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981	18.8	1.2	47	42	US-10-1-227-565-13316	Sequence 15799, A
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ALIGNMENTS

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RESULT 1
US-09-590-211-9
; Sequence 9, Application US/09590211
; GENERAL INFORMATION:
; APPLICANT: Rouleau, Guy A.
; TITLE OF INVENTION: Short CCG Expansions in the PAB II Gene
; TITLE OF INVENTION: for Oculopharyngeal Muscular Dystrophy and Diagnostic
; TITLE OF INVENTION: Thereof
; FILE REFERENCE: 3028.1000-000
; CURRENT APPLICATION NUMBER: US/09/590,211
; CURRENT FILING DATE: 2000-06-08
; PRIOR APPLICATION NUMBER: PCT/CA98/01133
; PRIOR FILING DATE: 1998-12-07
; PRIOR APPLICATION NUMBER: 2,218,199
; PRIOR FILING DATE: 1997-12-09
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 9
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-590-211-9

Query Match          2.0%; Score 31.8; DB 22; Length 45;
Best Local Similarity 83.7%; Pred. No. 1.7e+05;
Matches 36; Conservative 0; Mismatches 7; Indels 0; Gaps 0

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RESULT 2
US-09-590-211A-9
; Sequence 9, Application US/09590211A
; GENERAL INFORMATION:
; APPLICANT: Rouleau, Guy A.
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APPLICANT: Brals, Bernard
TITLE OF INVENTION: SHORT GCG EXPANSIONS IN THE PAB II GENE
FILE OF INVENTION: FOR OCULOOPHTHALMIC MUSCULAR DYSTROPHY AND DIAGNOSTIC THEREOF
FILE REFERENCE: 3028.1000-000
CURRENT APPLICATION NUMBER: US/09/590,211A
CURRENT FILING DATE: 2000-06-08
PRIOR APPLICATION NUMBER: PCT/CA98/01133
PRIOR FILING DATE: 1998-12-07
PRIOR APPLICATION NUMBER: 2,218,199
PRIOR FILING DATE: 1997-12-09
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 9
LENGTH: 45
TYPE: DNA
ORGANISM: Homo sapiens
US-09-590-211A-9
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Query Match
Best Local Similarity 2.0%; Score 31.8; DB 22; Length 45;
Matches 36; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
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QY 1343 GCGGCGGACAGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCA 1385
Db 3 GCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCA 45
```

```
RESULT 3
US-09-782-650-16
Sequence 16, Application US/09782650
GENERAL INFORMATION:
APPLICANT: Levine, Arnold J.
APPLICANT: Mitterer, Artur
APPLICANT: Falkner, Falko-Guenther
APPLICANT: Schefflinger, Friedrich
APPLICANT: Dornier, Friedrich
TITLE OF INVENTION: Targeted Angiogenesis
FILE REFERENCE: 20553D-000611US
CURRENT APPLICATION NUMBER: US/09/782,650
CURRENT FILING DATE: 2001-02-12
PRIOR APPLICATION NUMBER: US 09/324,079
PRIOR FILING DATE: 1999-06-01
PRIOR APPLICATION NUMBER: US 09/327,045
PRIOR FILING DATE: 1999-06-07
PRIOR APPLICATION NUMBER: PCT/US00/14988
PRIOR FILING DATE: 2000-05-31
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 16
LENGTH: 50
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: annealed
US-09-782-650-16
```

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Query Match
Best Local Similarity 2.0%; Score 31.4; DB 30; Length 50;
Matches 35; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
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```
QY 1341 GCGGCGGACAGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCA 1381
Db 7 GCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCA 47
```

```
RESULT 4
US-09-590-211-8
Sequence 8, Application US/09590211
GENERAL INFORMATION:
APPLICANT: Rouleau, Guy A.
APPLICANT: Brals, Bernard
```

```
TITLE OF INVENTION: Short GCG Expansions in the PAB II Gene
FILE OF INVENTION: for Oculopharyngeal Muscular Dystrophy and Diagnostic Thereof
FILE REFERENCE: 3028.1000-000
CURRENT APPLICATION NUMBER: US/09/590,211
CURRENT FILING DATE: 2000-06-08
PRIOR APPLICATION NUMBER: PCT/CA98/01133
PRIOR FILING DATE: 1998-12-07
PRIOR APPLICATION NUMBER: 2,218,199
PRIOR FILING DATE: 1997-12-09
NUMBER OF SEQ ID NOS: 21
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 8
LENGTH: 42
TYPE: DNA
ORGANISM: Homo sapiens
US-09-590-211-8
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Query Match
Best Local Similarity 1.8%; Score 28.8; DB 22; Length 42;
Matches 33; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
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QY 1346 GCGGACAGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCA 1385
Db 3 GCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCA 42
```

```
RESULT 5
US-09-590-211A-8
Sequence 8, Application US/09590211A
GENERAL INFORMATION:
APPLICANT: Rouleau, Guy A.
APPLICANT: Brals, Bernard
TITLE OF INVENTION: SHORT GCG EXPANSIONS IN THE PAB II GENE
FILE OF INVENTION: FOR OCULOOPHTHALMIC MUSCULAR DYSTROPHY AND DIAGNOSTIC THEREOF
FILE REFERENCE: 3028.1000-000
CURRENT APPLICATION NUMBER: US/09/590,211A
CURRENT FILING DATE: 2000-06-08
PRIOR APPLICATION NUMBER: PCT/CA98/01133
PRIOR FILING DATE: 1998-12-07
PRIOR APPLICATION NUMBER: 2,218,199
PRIOR FILING DATE: 1997-12-09
NUMBER OF SEQ ID NOS: 21
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 8
LENGTH: 42
TYPE: DNA
ORGANISM: Homo sapiens
US-09-590-211A-8
```

```
Query Match
Best Local Similarity 1.8%; Score 28.8; DB 22; Length 42;
Matches 33; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
```

```
QY 1346 GCGGACAGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCA 1385
Db 3 GCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCA 42
```

```
RESULT 6
PCT-US02-26129-14
Sequence 14, Application PCT/US0226129
GENERAL INFORMATION:
APPLICANT: Origene Technologies
APPLICANT: Origene Technologies
TITLE OF INVENTION: Serine Protein Kinase in Brain and Pancreas
FILE REFERENCE: 160 101 PCT
CURRENT APPLICATION NUMBER: PCT/US02/26129
CURRENT FILING DATE: 2002-08-16
PRIOR APPLICATION NUMBER: US 09/930,181
PRIOR FILING DATE: 2001-08-16
NUMBER OF SEQ ID NOS: 18
SOFTWARE: PatentIn Version 3.1
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```

; SEQ ID NO 14
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
; PCT-US02-26129-14

```

Query Match	1.8%	Score 28.2;	DB 1;	Length 50;
Best Local Similarity	73.5%;	Pred. No. 6.2e+05;		
Matches 36;	Conservative 0;	Mismatches 13;	Indels 0;	Gaps 0;

QY 1336 GGAACCGGCGGGAGCAGCGGCGGGGAGCCCGGGGGCGGCGGGC 1384
|| || || || || || || || || || || || || || || || || || || ||
Db 1 GGCGCGGGCGGCGGCTTCGGCGGCGGCGGCGGCGGCGGCGGAAGC 49

RESULT 7
US-10-195-071-14
; Sequence 14, Application US/10195071

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? APPLICANT: Drigene Technologies
? TITLE OF INVENTION: Full-length Serine Protein Kinase in Brain and Pancreas
? FILE REFERENCE: 16U 101 C1
? CURRENT APPLICATION NUMBER: US/10/195,071
? CURRENT FILING DATE: 2002-07-15
? PRIOR APPLICATION NUMBER: US 09/930,181
? PRIOR FILING DATE: 2001-08-16
? NUMBER OF SEQ ID NOS: 18
? SOFTWARE: PatentIn version 3.1
? SEQ ID NO 14
? LENGTH: 50
? TYPE: DNA
? ORGANISM: Homo sapiens
US-10-195-071-14
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[illegible]

```

RESULT 8
US-10-195-072-14
; Sequence 14, Application US/10195072
; GENERAL INFORMATION:
; APPLICANT: Origene Technologies
; TITLE OF INVENTION: Full-Length Serine Protein Kinase in Brain and Pancreas

```

```

? FILE REFERENCE: 16U 101 C2
? CURRENT APPLICATION NUMBER: US/10/195,072
? CURRENT FILING DATE: 2002-07-15
? PRIOR APPLICATION NUMBER: US 09/930,181
? PRIOR FILING DATE: 2001-08-16
? NUMBER OF SEQ ID NOS: 18
? SOFTWARE: PatentIn version 3.1
? SEQ ID NO 14
? LENGTH: 50
? TYPE: DNA
? ORGANISM: Homo sapiens
?
? US-10-195-072-14

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[illegible]

RESULT 9
US-09-590-211-7

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? Sequence 7 Application US/09530211
?
? GENERAL INFORMATION:
?
? APPLICANT: Rouleau, Guy A.
?
? APPLICANT: Brais, Bernard
?
? TITLE OF INVENTION: Short GCG Expansions in the PAB II Gene
?
? TITLE OF INVENTION: for Oculopharyngeal Muscular Dystrophy and Diagnostic
?
? TITLE OF INVENTION: Therect
?
? FILE REFERENCE: 3028.1000-000
?
? CURRENT APPLICATION NUMBER: US/09/590.211
?
? CURRENT FILING DATE: 2000-06-08
?
? PRIOR APPLICATION NUMBER: PCT/CA98/01133
?
? PRIOR FILING DATE: 1998-12-07
?
? PRIOR APPLICATION NUMBER: 2.218.199
?
? PRIOR FILING DATE: 1997-12-09
?
? NUMBER OF SEQ ID NOS: 21
?
? SOFTWARE: FastSeq for Windows Version 4.0
?
? SEQ ID NO 7
?
? LENGTH: 39
?
? TYPE: DNA
?
? ORGANISM: Homo sapiens
?
US-09-590-211-7

```

	Query Match	Similarity	1.7%	Score	27.4	DB	22	Length	39
	Best Local	Similarity	83.8%	Pred. No.	8.4e+05				
	Matches	51	Conservative	0	Mismatches	6		Indels	0
									Gaps
QY	1349	GACACGCGCGCGCGGACCCGCGGCGCGCGCGCA	1385						
		1							
		1							
Db	3	GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCA	39						

```

RESULT 10
US-09-590-211A-7
; Sequence 7. Application US/09590211A
; GENERAL INFORMATION:
; APPLICANT: Rouleau, Guy A.
; APPLICANT: Brais, Bernard
; TITLE OF INVENTION: SHORT GCG EXPANSIONS IN THE PAB II GENE
; TITLE OF INVENTION: FOR OCULOPHARYNGEAL MUSCULAR DYSTROPHY AND DIAGNOSTIC THEREOF
; FILE REFERENCE: 3028, 1000-000
; CURRENT APPLICATION NUMBER: US/09/590,211A
; CURRENT FILING DATE: 2000-06-08
; PRIOR APPLICATION NUMBER: PCT/CA98/01133
; PRIOR FILING DATE: 1998-12-07
; PRIOR APPLICATION NUMBER: 2,218,199
; PRIOR FILING DATE: 1997-12-09
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 39
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-590-211A-7

```

Query Match	1.7%	Score 27.4	DB 22	Length 39
Best Local Similarity	83.6%	Prod No. 8	4e+05	
Matches 31	Conservative	0	Mismatches 6	Indels 0
Gaps				
QY 1349	GACACGCGCGCGCGGACCGCGCGCGCGCGCGGCA	1385		
Db 3	GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGGCA	39		

```

RESULT 11
US-09-992-665-289/c
; Sequence 289, Application US/09992665
; GENERAL INFORMATION:
; APPLICANT: Kaia Palm
; TITLE OF INVENTION: PROFILING TUMOR SPECIFIC MARKERS FOR THE
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF NEOPLASTIC DISEASE
; FILE REFERENCE: CEMINES.002A
; CURRENT APPLICATION NUMBER: US/09/992,665
; CURRENT FILING DATE: 2001-11-13

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Query Match	1.7%;	Score 26.4;	DB 1;	Length 45,
Best Local Similarity	75.0%;	Pred. No. 1.2e+06;		

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RESULT 20
US-09-857-723-199/c
; Sequence 199, Application US/09857723
; GENERAL INFORMATION:
; APPLICANT: Alciwar-Warren, Acacia

```

US-09-396-196F-67183

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; Sequence 67183, Application US/09396196F
; GENERAL INFORMATION:
; APPLICANT: Michael Miltmann
; APPLICANT: David Mack
; APPLICANT: David Lockhart
; APPLICANT: Affymetrix, Inc.
; TITLE OF INVENTION: Methods of Genetic Analysis
; FILE REFERENCE: 3101.1
; CURRENT APPLICATION NUMBER: US/09/396,196F
; CURRENT FILING DATE: 2001-09-15
; PRIOR APPLICATION NUMBER: 60/100,678
; PRIOR FILING DATE: 1998-09-17
; NUMBER OF SEQ ID NOS: 127806
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67183
; LENGTH: 25
; TYPE: DNA
; ORGANISM: mus musculus
; US-09-396-196F-67183

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```

Query Match          1.6%; Score 25; DB 17; Length 25;
Best Local Similarity 100.0%; Pred. No. 2.1e+06;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1206 GCACCATTCATCATCACCAGGTGCT 1230
      |||||
Db 1 GCACCATTCATCATCACCAGGTGCT 25

```

```

RESULT 25
; US-09-396-196G-67173
; Sequence 67173, Application US/09396196G
; GENERAL INFORMATION:
; APPLICANT: Michael Miltmann
; APPLICANT: David Mack
; APPLICANT: David Lockhart
; APPLICANT: Affymetrix, Inc.
; TITLE OF INVENTION: Methods of Genetic Analysis
; FILE REFERENCE: 3101.1
; CURRENT APPLICATION NUMBER: US/09/396,196G
; CURRENT FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: 60/100,678
; PRIOR FILING DATE: 1998-09-17
; NUMBER OF SEQ ID NOS: 127806
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67173
; LENGTH: 25
; TYPE: DNA
; ORGANISM: mus musculus
; US-09-396-196G-67173

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```

Query Match          1.6%; Score 25; DB 17; Length 25;
Best Local Similarity 100.0%; Pred. No. 2.1e+06;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

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QY 1443 GCATCCACTGTACTCGCAGTGTCT 1467
      |||||
Db 1 GCATCCACTGTACTCGCAGTGTCT 25

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Search completed: March 14, 2003, 01:02:17
Job time : 3791 secs

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Run On: March 13, 2003, 21:59:18 ; Search time 476 Seconds (without 31 minutes)

520.095 million cell updates/sec

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Title: US-10-001-844-3
Perfect score: 1576
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Scoring table: IDENTITY_NUC

Searched: 4665808 seqs, 1135648920 residues

Total number of hits satisfying chosen parameters: 7025612

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Listing first 1000 summaries

Database : Pending_Patents_NA_New:*

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2: /cgn2_6.pprodata/1/pna/US06_NEW_COMB.seg: *
3: /cgn2_6.pprodata/1/pna/US07_NEW_COMB.seg: *
4: /cgn2_6.pprodata/1/pna/US08_NEW_COMB.seg: *
5: /cgn2_6.pprodata/1/pna/US09_NEW_COMB.seg: *
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9: /cgn2_6.pprodata/1/pna/US10_NEW_COMB.seg: 2

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	Score	Length	ID	Description
1	1.9	30	8	US-10-001-844-6	Sequence 6, Appl1
2	26.4	1.7	44	US-10-287-787-7843	Sequence 7843, Ap
3	26	1.6	46	US-10-299-054A-10448	Sequence 10448, A
4	25.6	1.6	43	US-10-299-054A-10430	Sequence 10430, A
5	25.6	1.6	43	US-10-299-054A-10431	Sequence 10431, A
6	25.6	1.6	43	US-10-299-054A-10449	Sequence 10449, A
7	25.6	1.6	43	US-10-299-054A-10450	Sequence 10450, A
8	25.6	1.6	50	US-10-126-448-2	Sequence 2, Appl1
9	25	1.6	8	US-10-303-778-10110	Sequence 10110, A
10	25	1.6	25	US-60-427-808-296803	Sequence 296803,
11	25	1.6	25	US-60-427-808-634065	Sequence 634065,
12	25	1.6	25	US-60-427-836-454485	Sequence 454485,
13	25	1.6	50	US-09-912-293-16672	Sequence 16672, A
14	24.4	1.5	50	US-10-351-951-54	Sequence 54, Appl
15	24	1.5	24	US-09-711-724A-43	Sequence 43, Appl
16	23.4	1.5	25	US-60-427-808-121712	Sequence 121712,
17	23.4	1.5	25	US-60-427-808-296804	Sequence 296804,
18	23.4	1.5	25	US-60-427-808-634064	Sequence 634064,
19	23.4	1.5	25	US-60-427-808-765746	Sequence 765746,
20	23.4	1.5	25	US-60-427-808-807573	Sequence 807373,
21	23.4	1.5	25	US-60-427-808-879497	Sequence 879497,
22	23.4	1.5	25	US-60-427-836-90500	Sequence 90500, A
23	23.4	1.5	25	US-60-427-836-238304	Sequence 238304,
24	23.4	1.5	9	US-60-427-836-454484	Sequence 454484,
70	21.8	1.4	50	US-10-299-054A-9427	Sequence 9427, Ap
71	21.6	1.4	43	US-10-299-054A-9464	Sequence 9464, Ap
72	21.6	1.4	46	US-10-367-892-12230	Sequence 12230, A
73	21.6	1.4	46	US-10-299-054A-6233	Sequence 6233, Ap
74	21.6	1.4	50	US-60-288-292-11658	Sequence 11658, A
75	21.4	1.4	41	US-10-287-787-7195	Sequence 7195, Ap
76	21.4	1.4	41	US-10-299-054A-10665	Sequence 10665, A
77	21.4	1.4	41	US-10-299-054A-10666	Sequence 10666, A
78	21.4	1.4	42	US-10-224-661A-14	Sequence 11, Appl
79	21.4	1.4	45	US-10-015-610A-151	Sequence 11, Appl
80	21.4	1.4	45	US-10-026-254A-151	Sequence 151, App
81	21.4	1.4	45	US-10-017-253A-151	Sequence 151, App
82	21.4	1.4	50	US-09-912-293-18701	Sequence 18701, A
83	21.4	1.4	50	US-09-912-293-67589	Sequence 67589, A
84	21.2	1.3	42	US-10-299-054A-197	Sequence 197, App
85	21.2	1.3	43	US-10-299-054A-7349	Sequence 7349, App
86	21.2	1.3	44	US-10-299-054A-3365	Sequence 8103, Ap
87	21.2	1.3	44	US-10-299-054A-4273	Sequence 3265, Ap
88	21.2	1.3	47	US-10-287-787-4906	Sequence 4273, Ap
89	21.2	1.3	50	US-09-912-293-164157	Sequence 14906, Ap
90	21	1.3	21	US-10-310-188-64439	Sequence 164157,
91	21	1.3	21	US-10-001-844-4	Sequence 64439, A
92	21	1.3	42	US-10-299-054A-723	Sequence 723, App
93	21	1.3	50	US-10-329-62A-2153	Sequence 2153, Ap
94	20.8	1.3	25	US-60-427-808-825913	Sequence 825913,
95	20.8	1.3	25	US-60-427-836-654494	Sequence 654494,
96	20.8	1.3	32	US-10-299-054A-10607	Sequence 10607, A
97	20.8	1.3	40	US-10-367-892-7237	Sequence 7237, Ap

C 98	20.8	1.3	42	7	US-10-299-054A-4333	Sequence 4333, Ap	C 171	20	1.3	20	8	US-10-001-844-35	Sequence 35, Appl
C 99	20.8	1.3	46	7	US-10-299-054A-7060	Sequence 7060, Ap	C 172	20	1.3	20	8	US-10-001-844-36	Sequence 36, Appl
C 100	20.8	1.3	46	7	US-10-287-787-9487	Sequence 9487, Ap	C 173	20	1.3	20	8	US-10-001-844-37	Sequence 37, Appl
C 101	20.8	1.3	48	7	US-10-299-054A-10445	Sequence 10445, A	C 174	20	1.3	20	8	US-10-001-844-38	Sequence 38, Appl
C 102	20.8	1.3	48	7	US-10-299-054A-10464	Sequence 10464, A	C 175	20	1.3	20	8	US-10-001-844-39	Sequence 39, Appl
C 103	20.8	1.3	48	7	US-10-187-394-33	Sequence 33, Appl	C 176	20	1.3	20	8	US-10-001-844-40	Sequence 40, Appl
C 104	20.8	1.3	50	7	US-10-287-787-9699	Sequence 9699, Ap	C 177	20	1.3	20	8	US-10-001-844-41	Sequence 41, Appl
C 105	20.8	1.3	50	7	US-10-287-787-26352	Sequence 26352, A	C 178	20	1.3	20	8	US-10-001-844-42	Sequence 42, Appl
C 106	20.6	1.3	38	7	US-10-299-054A-1159	Sequence 1159, Ap	C 179	20	1.3	20	8	US-10-001-844-43	Sequence 43, Appl
C 107	20.6	1.3	39	6	US-09-548-797B-145	Sequence 145, App	C 180	20	1.3	20	8	US-10-001-844-44	Sequence 44, Appl
C 108	20.6	1.3	39	6	US-10-367-892-20998	Sequence 20998, A	C 181	20	1.3	20	8	US-10-001-844-45	Sequence 45, Appl
C 109	20.6	1.3	41	8	US-10-277-216-251	Sequence 251, App	C 182	20	1.3	20	8	US-10-001-844-46	Sequence 46, Appl
C 110	20.6	1.3	45	7	US-10-299-054A-9465	Sequence 9465, Ap	C 183	20	1.3	20	8	US-10-001-844-47	Sequence 47, Appl
C 111	20.6	1.3	50	6	US-09-912-293-133717	Sequence 133717, Sequence 230617, A	C 184	20	1.3	20	8	US-10-001-844-48	Sequence 48, Appl
C 112	20.6	1.3	50	6	US-09-912-293-230617	Sequence 230617, A	C 185	20	1.3	20	8	US-10-001-844-49	Sequence 49, Appl
C 113	20.4	1.3	31	7	US-10-314-578-1096	Sequence 1096, Ap	C 186	20	1.3	20	8	US-10-299-054A-2219	Sequence 2219, Ap
C 114	20.4	1.3	31	7	US-10-299-054A-10609	Sequence 10609, A	C 187	20	1.3	20	8	US-10-367-892-8624	Sequence 8624, Ap
C 115	20.4	1.3	32	7	US-10-367-892-4004	Sequence 4004, Ap	C 188	20	1.3	20	8	US-10-332-542-15	Sequence 15, Appl
C 116	20.4	1.3	32	7	US-09-888-326A-1172	Sequence 1172, App	C 189	20	1.3	20	8	US-10-367-892-6205	Sequence 6205, Ap
C 117	20.4	1.3	35	8	US-10-314-578-771	Sequence 771, App	C 190	20	1.3	20	8	US-10-367-892-6205	Sequence 6205, Ap
C 118	20.4	1.3	35	8	US-10-299-054A-2212	Sequence 2212, App	C 191	20	1.3	20	8	US-10-287-787-5968	Sequence 5968, Ap
C 119	20.4	1.3	38	7	US-10-287-787-22474	Sequence 22474, A	C 192	20	1.3	20	8	US-10-287-787-5968	Sequence 5968, Ap
C 120	20.4	1.3	39	7	US-10-299-054A-10598	Sequence 10598, A	C 193	20	1.3	20	8	US-09-989-733-122	Sequence 122, App
C 121	20.4	1.3	40	7	US-10-287-787-4905	Sequence 4905, Ap	C 194	20	1.3	20	8	US-09-989-733-122	Sequence 122, App
C 122	20.4	1.3	41	7	US-10-367-892-14922	Sequence 14922, A	C 195	20	1.3	20	8	US-10-299-054A-8129	Sequence 8129, App
C 123	20.4	1.3	42	8	US-10-224-651A-15	Sequence 15, Appl	C 196	20	1.3	20	8	US-09-785-632B-6	Sequence 6, Appl
C 124	20.4	1.3	44	7	US-10-287-787-12769	Sequence 12769, A	C 197	20	1.3	20	8	US-10-299-054A-9753	Sequence 9753, Ap
C 125	20.4	1.3	45	7	US-10-367-892-12335	Sequence 12335, A	C 198	20	1.3	20	8	US-10-310-188-731186	Sequence 731186, A
C 126	20.4	1.3	46	7	US-10-299-054A-9746	Sequence 9746, Ap	C 199	20	1.3	20	8	US-10-310-188-731186	Sequence 731186, A
C 127	20.4	1.3	48	7	US-10-367-892-11618	Sequence 11618, A	C 200	20	1.3	20	8	US-10-287-787-13541	Sequence 13541, A
C 128	20.4	1.3	48	7	US-09-912-293-67368	Sequence 67368, A	C 201	20	1.3	20	8	US-10-299-054A-9491	Sequence 9491, Ap
C 129	20.4	1.3	50	6	US-10-299-054A-10599	Sequence 10599, A	C 202	20	1.3	20	8	US-10-299-054A-9410	Sequence 9410, Ap
C 130	20.4	1.3	50	7	US-10-329-624-5127	Sequence 5127, Ap	C 203	20	1.3	20	8	US-10-299-054A-9419	Sequence 9419, Ap
C 131	20.4	1.3	50	8	US-10-427-808-52328	Sequence 52328, A	C 204	20	1.3	20	8	US-09-705-552A-1	Sequence 1, Appl
C 132	20.2	1.3	25	9	US-60-427-836-590247	Sequence 590247, A	C 205	20	1.3	20	8	US-60-288-292-32448	Sequence 32448, A
C 133	20.2	1.3	25	9	US-10-287-787-3287	Sequence 3287, A	C 206	20	1.3	20	8	US-09-912-293-48904	Sequence 48904, A
C 134	20.2	1.3	30	7	US-10-287-787-3287	Sequence 117, App	C 207	20	1.3	20	8	US-10-367-892-8874	Sequence 8874, A
C 135	20.2	1.3	33	7	US-10-287-787-16472	Sequence 16472, A	C 208	20	1.3	20	8	US-10-310-188-78780	Sequence 78780, A
C 136	20.2	1.3	41	7	US-10-299-054A-2492	Sequence 2492, Ap	C 209	20	1.3	20	8	US-10-299-054A-10854	Sequence 10854, A
C 137	20.2	1.3	41	7	US-10-287-787-1598	Sequence 1598, Ap	C 210	20	1.3	20	8	US-10-367-892-12752	Sequence 12752, A
C 138	20.2	1.3	41	7	US-10-287-787-23892	Sequence 23892, A	C 211	20	1.3	20	8	US-10-299-054A-1327	Sequence 1327, Ap
C 139	20.2	1.3	41	7	US-10-299-054A-2491	Sequence 2491, Ap	C 212	20	1.3	20	8	US-10-367-892-12751	Sequence 12751, A
C 140	20.2	1.3	42	7	US-10-299-054A-3309	Sequence 3309, Ap	C 213	20	1.3	20	8	US-10-367-892-12751	Sequence 12751, A
C 141	20.2	1.3	43	7	US-10-367-892-22163	Sequence 22163, A	C 214	20	1.3	20	8	US-10-299-054A-4273	Sequence 4273, Ap
C 142	20.2	1.3	45	7	US-10-299-054A-6232	Sequence 6232, A	C 215	20	1.3	20	8	US-10-316-956-1844	Sequence 1844, Ap
C 143	20.2	1.3	45	7	US-10-299-054A-10719	Sequence 10719, A	C 216	20	1.3	20	8	US-09-762-862-8	Sequence 8, Appl
C 144	20.2	1.3	45	7	US-10-299-054A-10698	Sequence 10698, A	C 217	20	1.3	20	8	US-09-762-862-8	Sequence 8, Appl
C 145	20.2	1.3	50	7	US-10-001-844-10	Sequence 10, Appl	C 218	20	1.3	20	8	US-09-912-293-18731	Sequence 18731, A
C 146	20	1.3	20	8	US-10-001-844-11	Sequence 11, Appl	C 219	20	1.3	20	8	US-09-912-293-205920	Sequence 205920, A
C 147	20	1.3	20	8	US-10-001-844-12	Sequence 12, Appl	C 220	20	1.3	20	8	US-10-287-787-21723	Sequence 21723, A
C 148	20	1.3	20	8	US-10-001-844-13	Sequence 13, Appl	C 221	20	1.3	20	8	US-10-325-899-181	Sequence 181, App
C 149	20	1.3	20	8	US-10-001-844-14	Sequence 14, Appl	C 222	20	1.3	20	8	US-10-303-778-11706	Sequence 11706, A
C 150	20	1.3	20	8	US-10-001-844-15	Sequence 15, Appl	C 223	20	1.3	20	8	US-10-299-054A-7050	Sequence 7050, Ap
C 151	20	1.3	20	8	US-10-001-844-16	Sequence 16, Appl	C 224	20	1.3	20	8	PCR-US02-48288-185	Sequence 185, App
C 152	20	1.3	20	8	US-10-001-844-17	Sequence 17, Appl	C 225	20	1.3	20	8	US-10-299-054A-5405	Sequence 5405, Ap
C 153	20	1.3	20	8	US-10-001-844-18	Sequence 18, Appl	C 226	20	1.3	20	8	US-10-299-054A-5406	Sequence 5406, Ap
C 154	20	1.3	20	8	US-10-001-844-19	Sequence 19, Appl	C 227	20	1.3	20	8	US-10-299-054A-5407	Sequence 5407, Ap
C 155	20	1.3	20	8	US-10-001-844-20	Sequence 20, Appl	C 228	20	1.3	20	8	US-10-299-054A-5407	Sequence 5407, Ap
C 156	20	1.3	20	8	US-10-001-844-21	Sequence 21, Appl	C 229	20	1.3	20	8	US-10-367-892-11707	Sequence 11707, A
C 157	20	1.3	20	8	US-10-001-844-22	Sequence 22, Appl	C 230	20	1.3	20	8	US-10-367-892-11707	Sequence 11707, A
C 158	20	1.3	20	8	US-10-001-844-23	Sequence 23, Appl	C 231	20	1.3	20	8	US-10-287-787-22294	Sequence 22294, A
C 159	20	1.3	20	8	US-10-001-844-24	Sequence 24, Appl	C 232	20	1.3	20	8	US-10-287-787-22294	Sequence 22294, A
C 160	20	1.3	20	8	US-10-001-844-25	Sequence 25, Appl	C 233	20	1.3	20	8	US-10-299-054A-3826	Sequence 3826, Ap
C 161	20	1.3	20	8	US-10-001-844-26	Sequence 26, Appl	C 234	20	1.3	20	8	US-10-299-054A-10674	Sequence 10674, A
C 162	20	1.3	20	8	US-10-001-844-27	Sequence 27, Appl	C 235	20	1.3	20	8	US-10-287-787-405	Sequence 405, App
C 163	20	1.3	20	8	US-10-001-844-28	Sequence 28, Appl	C 236	20	1.3	20	8	US-10-287-787-405	Sequence 405, App
C 164	20	1.3	20	8	US-10-001-844-29	Sequence 29, Appl	C 237	20	1.3	20	8	US-10-349-143-2552	Sequence 2552, Ap
C 165	20	1.3	20	8	US-10-001-844-30	Sequence 30, Appl	C 238	20	1.3	20	8	US-10-349-143-2552	Sequence 2552, Ap
C 166	20	1.3	20	8	US-10-001-844-31	Sequence 31, Appl	C 239	20	1.3	20	8	US-10-299-054A-10530	Sequence 10530, A
C 167	20	1.3	20	8	US-10-001-844-32	Sequence 32, Appl	C 240	20	1.3	20	8	US-10-287-787-20144	Sequence 20144, A
C 168	20	1.3	20	8	US-10-001-844-33	Sequence 33, Appl	C 241	20	1.3	20	8	US-09-765-555A-25	Sequence 25, Appl
C 169	20	1.3	20	8	US-10-001-844-34	Sequence 34, Appl	C 242	20	1.3	20	8	US-09-912-293-171148	Sequence 171148, A
C 170	20	1.3	20	8	US-10-001-844-34	Sequence 34, Appl	C 243	20	1.3	20	8	US-10-299-054A-8379	Sequence 8379, Ap

244	19.4	1.2	50	7	US-10-287-787-8559	Sequence 8559, Ap	C 317	19	1.2	45	7	US-10-299-054A-5126	Sequence 5126, Ap
245	19.4	1.2	50	8	US-10-325-899-523	Sequence 523, Ap	C 318	19	1.2	45	8	US-10-089-058-60	Sequence 60, Ap
246	19.2	1.2	24	8	US-10-310-188-4864	Sequence 4864, A	C 319	19	1.2	45	8	US-10-089-058A-60	Sequence 60, Ap
247	19.2	1.2	24	8	US-10-310-188-4865	Sequence 4865, A	C 320	19	1.2	45	8	US-10-089-058A-60	Sequence 60, Ap
248	19.2	1.2	25	8	US-10-355-577-6377	Sequence 6377, A	C 321	19	1.2	47	7	US-10-299-054A-10800	Sequence 10800, A
249	19.2	1.2	25	9	US-60-427-808-83180	Sequence 83180, A	C 322	19	1.2	47	7	US-10-299-054A-10800	Sequence 10800, A
250	19.2	1.2	25	9	US-60-427-836-22534	Sequence 22534, A	C 323	19	1.2	48	6	US-09-798-506A-16	Sequence 16, Ap
251	19.2	1.2	25	9	US-60-427-836-24066	Sequence 244066, Sequence 385452, Sequence 65493, Sequence 20, Ap	C 324	19	1.2	48	6	US-10-367-892-225020	Sequence 225020, A
252	19.2	1.2	25	9	US-60-427-836-385452	Sequence 385452, Sequence 65493, Sequence 20, Ap	C 325	19	1.2	48	7	US-10-287-787-22173	Sequence 22173, A
253	19.2	1.2	25	9	US-60-427-836-654493	Sequence 654493, Sequence 20, Ap	C 326	19	1.2	48	7	US-10-325-899-4962	Sequence 4962, Ap
254	19.2	1.2	32	8	US-10-270-524-20	Sequence 20, Ap	C 327	18.8	1.2	22	8	US-10-310-188-29562	Sequence 29562, A
255	19.2	1.2	33	7	US-10-289-054A-10857	Sequence 10857, A	C 328	18.8	1.2	25	9	US-60-427-836-346047	Sequence 346047, A
256	19.2	1.2	34	7	US-10-289-054A-3310	Sequence 3310, Ap	C 329	18.8	1.2	25	9	US-60-427-836-654281	Sequence 654281, A
257	19.2	1.2	38	7	US-10-287-787-16578	Sequence 16578, A	C 330	18.8	1.2	30	7	US-10-367-892-18092	Sequence 18092, A
258	19.2	1.2	38	7	US-10-367-892-12802	Sequence 12802, A	C 331	18.8	1.2	32	7	US-10-299-054A-5501	Sequence 5501, Ap
259	19.2	1.2	38	7	US-10-299-054A-1692	Sequence 1692, Ap	C 332	18.8	1.2	32	7	US-60-288-292-46713	Sequence 46713, A
260	19.2	1.2	38	7	US-10-299-054A-10622	Sequence 10622, A	C 333	18.8	1.2	33	7	US-10-299-054A-5500	Sequence 5500, Ap
261	19.2	1.2	39	7	US-10-299-054A-3972	Sequence 3972, Ap	C 334	18.8	1.2	33	7	US-10-299-054A-5500	Sequence 5500, Ap
262	19.2	1.2	39	7	US-10-299-054A-7337	Sequence 7337, Ap	C 335	18.8	1.2	37	7	US-10-299-054A-5201	Sequence 5201, Ap
263	19.2	1.2	40	7	US-10-367-892-9687	Sequence 9687, Ap	C 336	18.8	1.2	38	7	US-10-299-054A-5201	Sequence 5201, Ap
264	19.2	1.2	40	7	US-10-287-787-11738	Sequence 11738, A	C 337	18.8	1.2	38	7	US-10-299-054A-10621	Sequence 10621, A
265	19.2	1.2	40	7	US-10-287-787-16577	Sequence 16577, A	C 338	18.8	1.2	39	7	US-10-299-054A-11189	Sequence 11189, A
266	19.2	1.2	41	7	US-10-287-787-13882	Sequence 13882, A	C 339	18.8	1.2	39	8	US-10-305-275-1473	Sequence 1473, Ap
267	19.2	1.2	41	8	US-10-310-157-2531	Sequence 2531, Ap	C 340	18.8	1.2	40	6	US-09-875-082-75	Sequence 75, Ap
268	19.2	1.2	42	7	US-10-299-054A-10675	Sequence 10675, A	C 341	18.8	1.2	40	6	US-09-876-082-75	Sequence 75, Ap
269	19.2	1.2	42	8	US-10-211-088-100	Sequence 100, App	C 342	18.8	1.2	40	6	US-10-299-054A-11190	Sequence 11190, A
270	19.2	1.2	44	8	US-10-316-956-236	Sequence 236, App	C 343	18.8	1.2				

390	18.6	1.2	34	1	PCT-US02-40561-7	Sequence 7, Appl1	463	18.4	1.2	40	7	US-10-287-787-13729	Sequence 13729, A
391	18.6	1.2	34	7	US-10-367-892-12768	Sequence 12768, A	464	18.4	1.2	41	7	US-10-299-054A-2527	Sequence 2527, Ap
392	18.6	1.2	34	7	US-10-299-054A-9417	Sequence 9417, Ap	465	18.4	1.2	43	7	US-10-299-054A-10683	Sequence 10683, A
393	18.6	1.2	34	7	US-10-299-054A-10505	Sequence 10505, A	466	18.4	1.2	44	7	US-10-299-054A-9578	Sequence 9578, Ap
394	18.6	1.2	34	7	US-10-299-054A-10532	Sequence 10532, A	467	18.4	1.2	44	7	US-10-299-054A-9679	Sequence 9679, Ap
395	18.6	1.2	36	7	US-10-299-054A-5419	Sequence 5419, Ap	468	18.4	1.2	44	7	US-10-299-054A-9680	Sequence 9680, Ap
396	18.6	1.2	37	7	US-10-299-054A-5418	Sequence 5418, Ap	469	18.4	1.2	45	7	US-10-299-054A-9680	Sequence 9680, Ap
397	18.6	1.2	38	7	US-10-299-054A-5416	Sequence 5416, Ap	470	18.4	1.2	45	7	US-10-299-054A-9684	Sequence 9684, Ap
398	18.6	1.2	39	7	US-10-299-054A-5415	Sequence 5415, Ap	471	18.4	1.2	45	7	PCT-US03-01698-34	Sequence 34, Appl1
399	18.6	1.2	39	7	US-10-299-054A-5417	Sequence 5417, Ap	472	18.4	1.2	46	7	US-10-299-054A-6232	Sequence 6232, Ap
400	18.6	1.2	40	7	US-10-299-054A-10504	Sequence 10504, A	473	18.4	1.2	46	7	US-09-770-169A-76	Sequence 76, Appl1
401	18.6	1.2	40	7	US-10-299-054A-10531	Sequence 10531, A	474	18.4	1.2	47	7	US-10-299-054A-8046	Sequence 8046, Ap
402	18.6	1.2	40	8	PCT-US02-35375-33	Sequence 33, Appl1	475	18.4	1.2	47	7	US-10-299-054A-11262	Sequence 11262, A
403	18.6	1.2	41	1	PCT-US02-40024-2	Sequence 2, Appl1	476	18.4	1.2	48	7	US-10-287-787-4527	Sequence 4527, Ap
404	18.6	1.2	41	1	US-10-299-054A-2224	Sequence 2224, Ap	477	18.4	1.2	48	7	US-10-367-892-6584	Sequence 6584, Ap
405	18.6	1.2	41	8	US-10-319-369-2	Sequence 2, Appl1	478	18.4	1.2	49	6	US-09-785-633B-8	Sequence 8, Appl1
406	18.6	1.2	41	8	US-10-299-054A-2494	Sequence 2494, Ap	479	18.4	1.2	49	6	US-10-299-054A-6930	Sequence 6930, Ap
407	18.6	1.2	42	7	US-10-299-054A-9747	Sequence 9747, Ap	480	18.4	1.2	50	6	US-09-912-293-120093	Sequence 120093, A
408	18.6	1.2	42	7	US-10-299-054A-10586	Sequence 10586, A	481	18.4	1.2	50	6	US-10-287-787-11402	Sequence 11402, A
409	18.6	1.2	42	7	US-10-299-054A-10586	Sequence 10586, A	482	18.4	1.2	50	7	US-10-325-899-451	Sequence 451, Ap
410	18.6	1.2	42	7	US-10-287-787-2473	Sequence 2473, A	483	18.4	1.2	50	8	US-10-325-899-6536	Sequence 6536, Ap
411	18.6	1.2	43	7	US-10-367-892-17749	Sequence 17749, A	484	18.4	1.2	50	8	US-10-325-899-6536	Sequence 6536, Ap
412	18.6	1.2	43	7	US-10-367-892-25041	Sequence 25041, A	485	18.4	1.2	50	8	US-10-325-899-6536	Sequence 6536, Ap
413	18.6	1.2	43	7	US-10-287-787-21378	Sequence 21378, A	486	18.4	1.2	50	8	US-10-325-899-6536	Sequence 6536, Ap
414	18.6	1.2	44	7	US-10-299-054A-6131	Sequence 6131, Ap	487	18.4	1.2	50	8	US-10-325-899-6536	Sequence 6536, Ap
415	18.6	1.2	44	7	US-10-299-054A-11059	Sequence 11059, A	488	18.4	1.2	50	8	US-10-325-899-6536	Sequence 6536, Ap
416	18.6	1.2	44	7	US-10-287-787-6829	Sequence 6829, Ap	489	18.2	1.2	23	8	US-10-310-188-35370	Sequence 35370, A
417	18.6	1.2	44	8	US-10-316-956-256	Sequence 256, Ap	490	18.2	1.2	24	8	US-10-310-188-67051	Sequence 67051, A
418	18.6	1.2	45	6	US-09-906-7778A-313	Sequence 313, Ap	491	18.2	1.2	24	8	US-10-310-188-74361	Sequence 74361, A
419	18.6	1.2	45	6	US-09-989-733-122	Sequence 122, Ap	492	18.2	1.2	25	7	US-10-299-054A-7009	Sequence 7009, Ap
420	18.6	1.2	45	6	US-09-992-643-122	Sequence 122, Ap	493	18.2	1.2	25	7	US-10-299-054A-7010	Sequence 7010, Ap
421	18.6	1.2	45	6	US-09-904-011C-313	Sequence 313, Ap	494	18.2	1.2	25	7	US-10-355-577-347029	Sequence 347029, A
422	18.6	1.2	45	6	US-09-665-350B-313	Sequence 313, Ap	495	18.2	1.2	25	7	US-10-355-577-363921	Sequence 363921, A
423	18.6	1.2	45	6	US-10-287-787-1205	Sequence 1205, Ap	496	18.2	1.2	25	7	US-10-355-577-479181	Sequence 479181, A
424	18.6	1.2	45	8	US-10-299-937-313	Sequence 313, Ap	497	18.2	1.2	25	8	US-10-355-577-594243	Sequence 594243, A
425	18.6	1.2	45	8	US-10-299-937-313	Sequence 313, Ap	498	18.2	1.2	25	8	US-10-355-577-594243	Sequence 594243, A
426	18.6	1.2	45	8	US-10-299-937-313	Sequence 313, Ap	499	18.2	1.2	25	9	US-60-427-808-191387	Sequence 191387, A
427	18.6	1.2	46	7	US-10-299-054A-6233	Sequence 6233, Ap	500	18.2	1.2	25	9	US-60-427-808-248076	Sequence 248076, A
428	18.6	1.2	46	7	US-10-287-787-10902	Sequence 10902, A	501	18.2	1.2	25	9	US-60-427-808-248076	Sequence 248076, A
429	18.6	1.2	47	7	US-10-367-892-12765	Sequence 12765, A	502	18.2	1.2	31	6	US-60-427-808-248076	Sequence 248076, A
430	18.6	1.2	47	7	US-10-367-892-12765	Sequence 12765, A	503	18.2	1.2	31	6	US-60-427-808-248076	Sequence 248076, A
431	18.6	1.2	47	7	US-10-287-787-21379	Sequence 21379, A	504	18.2	1.2	31	7	US-10-287-787-16471	Sequence 16471, A
432	18.6	1.2	49	7	US-10-299-054A-4441	Sequence 4441, Ap	505	18.2	1.2	31	7	US-10-287-787-25466	Sequence 25466, A
433	18.6	1.2	49	7	US-10-299-054A-4441	Sequence 4441, Ap	506	18.2	1.2	32	7	US-10-367-892-24507	Sequence 24507, A
434	18.6	1.2	49	7	US-10-083-246A-56	Sequence 56, Appl1	507	18.2	1.2	32	7	US-10-299-054A-9502	Sequence 9502, Ap
435	18.6	1.2	50	6	US-09-912-293-62813	Sequence 62813, A	508	18.2	1.2	33	7	US-10-367-892-14920	Sequence 14920, A
436	18.6	1.2	50	7	US-10-299-054A-2880	Sequence 2880, Ap	509	18.2	1.2	33	7	US-10-287-787-748	Sequence 748, Ap
437	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	510	18.2	1.2	33	7	US-10-299-054A-9445	Sequence 9445, Ap
438	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	511	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
439	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	512	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
440	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	513	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
441	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	514	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
442	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	515	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
443	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	516	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
444	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	517	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
445	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	518	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
446	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	519	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
447	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	520	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
448	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	521	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
449	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	522	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
450	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	523	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
451	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	524	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
452	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	525	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
453	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	526	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
454	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	527	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
455	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	528	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
456	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	529	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
457	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	530	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
458	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	531	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
459	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	532	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
460	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	533	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
461	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	534	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap
462	18.6	1.2	50	8	US-10-322-360-120	Sequence 120, Ap	535	18.2	1.2	33	7	US-10-287-787-8431	Sequence 8431, Ap

C 536	18.2	1.2	49	7	US-10-367-892-16985	Sequence 16985, A	C 609	18	1.1	50	6	US-09-912-293-206403	Sequence 206403, A
C 537	18.2	1.2	49	7	US-10-367-892-20906	Sequence 20906, A	C 610	18	1.1	50	7	US-10-367-892-15511	Sequence 15511, A
C 538	18.2	1.2	49	7	US-10-299-054A-10438	Sequence 10438, A	C 611	18	1.1	50	7	US-10-299-054A-3253	Sequence 3253, A
C 539	18.2	1.2	49	7	US-10-299-054A-10458	Sequence 10458, A	C 612	18	1.1	50	7	US-10-299-054A-4175	Sequence 4175, A
C 540	18.2	1.2	49	9	US-60-288-292-41502	Sequence 41502, A	C 613	18	1.1	50	7	US-10-299-054A-10526	Sequence 10526, A
C 541	18.2	1.2	50	6	US-09-912-293-43353	Sequence 43353, A	C 614	18	1.1	50	7	US-10-299-054A-10526	Sequence 10526, A
C 542	18.2	1.2	50	6	US-09-912-293-210464	Sequence 210464, A	C 615	18	1.1	50	7	US-10-287-787-7195	Sequence 7195, A
C 543	18.2	1.2	50	6	US-10-322-360-75	Sequence 75, Appl	C 616	18	1.1	50	8	US-10-317-832-181	Sequence 181, Appl
C 544	18.2	1.2	50	8	US-10-325-899-3908	Sequence 3908, Ap	C 617	18	1.1	50	8	US-10-325-899-191	Sequence 191, Appl
C 545	18.2	1.2	50	8	US-10-325-899-6766	Sequence 6766, Ap	C 618	18	1.1	50	8	US-10-325-899-613	Sequence 613, Appl
C 546	18.2	1.2	50	8	US-10-325-899-7156	Sequence 7156, Ap	C 619	18	1.1	50	8	US-10-325-899-7338	Sequence 7338, Ap
C 547	18.2	1.2	50	8	US-10-325-899-7341	Sequence 7341, Ap	C 620	18	1.1	50	8	US-10-325-899-7338	Sequence 7338, Ap
C 548	18.2	1.2	50	8	US-10-325-899-7450	Sequence 7450, Ap	C 621	18	1.1	50	8	US-10-325-899-7338	Sequence 7338, Ap
C 549	18.2	1.2	50	8	US-10-325-899-7529	Sequence 7529, Ap	C 622	18	1.1	50	8	US-10-325-899-7338	Sequence 7338, Ap
C 550	18.2	1.2	50	8	US-09-825-155A-6	Sequence 6, Appl	C 623	18	1.1	50	8	US-10-325-899-7338	Sequence 7338, Ap
C 551	18	1.1	18	6	US-10-310-188-39805	Sequence 39805, A	C 624	18	1.1	50	8	US-10-325-899-7338	Sequence 7338, Ap
C 552	18	1.1	26	8	US-10-310-188-42147	Sequence 42147, A	C 625	18	1.1	50	8	US-10-325-899-7338	Sequence 7338, Ap
C 553	18	1.1	29	1	PCT-US02-27188A-21	Sequence 20, Appl	C 626	17.8	1.1	21	8	US-10-303-778-9815	Sequence 9815, A
C 554	18	1.1	29	8	US-10-228-264-20	Sequence 21, Appl	C 627	17.8	1.1	21	8	US-10-310-188-48653	Sequence 48653, A
C 555	18	1.1	29	8	US-10-228-264-21	Sequence 21, Appl	C 628	17.8	1.1	21	8	US-10-310-188-48653	Sequence 48653, A
C 556	18	1.1	29	8	US-10-228-264-22	Sequence 21, Appl	C 629	17.8	1.1	21	8	US-10-310-188-48653	Sequence 48653, A
C 557	18	1.1	34	7	US-10-299-054A-9430	Sequence 9430, Ap	C 630	17.8	1.1	23	8	US-10-310-188-48653	Sequence 48653, A
C 558	18	1.1	34	7	US-10-299-054A-10312	Sequence 10312, A	C 631	17.8	1.1	23	8	US-10-310-188-48653	Sequence 48653, A
C 559	18	1.1	34	8	US-10-175-689-18	Sequence 18, Appl	C 632	17.8	1.1	25	9	US-60-427-806-455171	Sequence 455171, A
C 560	18	1.1	34	8	US-10-175-689-37	Sequence 37, Appl	C 633	17.8	1.1	25	9	US-60-427-806-455171	Sequence 455171, A
C 561	18	1.1	34	8	US-10-175-689-37	Sequence 37, Appl	C 634	17.8	1.1	25	9	US-60-427-806-455171	Sequence 455171, A
C 562	18	1.1	34	8	US-10-175-689-37	Sequence 37, Appl	C 635	17.8	1.1	25	9	US-60-427-806-455171	Sequence 455171, A
C 563	18	1.1	35	7	US-10-299-054A-10365	Sequence 10365, A	C 636	17.8	1.1	25	9	US-60-427-806-455171	Sequence 455171, A
C 564	18	1.1	35	7	US-10-299-054A-10366	Sequence 10366, A	C 637	17.8	1.1	25	9	US-60-427-806-455171	Sequence 455171, A
C 565	18	1.1	35	7	US-10-299-054A-10743	Sequence 10743, A	C 638	17.8	1.1	30	7	US-10-299-054A-3343	Sequence 3343, Ap
C 566	18	1.1	35	7	US-10-299-054A-10744	Sequence 10744, A	C 639	17.8	1.1	30	7	US-10-299-054A-3344	Sequence 3344, Ap
C 567	18	1.1	36	7	US-10-299-054A-3680	Sequence 3680, Ap	C 640	17.8	1.1	30	8	US-10-310-188-51809	Sequence 51809, A
C 568	18	1.1	36	7	US-10-287-787-9207	Sequence 9207, Ap	C 641	17.8	1.1	30	8	US-10-270-524-19	Sequence 19, Appl
C 569	18	1.1	36	8	US-10-008-960-28	Sequence 28, Appl	C 642	17.8	1.1	31	7	US-10-367-892-22622	Sequence 22622, A
C 570	18	1.1	36	8	US-10-169-351-1016	Sequence 1016, Appl	C 643	17.8	1.1	31	7	US-10-299-054A-2498	Sequence 2498, Ap
C 571	18	1.1	37	8	US-10-367-892-1336	Sequence 1336, Ap	C 644	17.8	1.1	31	7	US-10-299-054A-2499	Sequence 2499, Ap
C 572	18	1.1	38	8	US-10-305-275-1117	Sequence 1117, Ap	C 645	17.8	1.1	31	7	US-10-299-054A-2499	Sequence 2499, Ap
C 573	18	1.1	38	8	US-10-305-275A-1117	Sequence 1117, Ap	C 646	17.8	1.1	32	7	US-10-299-054A-2499	Sequence 2499, Ap
C 574	18	1.1	40	7	US-10-367-892-5928	Sequence 5928, Ap	C 647	17.8	1.1	32	7	US-10-299-054A-2499	Sequence 2499, Ap
C 575	18	1.1	40	7	US-10-299-054A-2531	Sequence 2531, Ap	C 648	17.8	1.1	32	7	US-10-299-054A-2499	Sequence 2499, Ap
C 576	18	1.1	40	7	US-10-083-246A-17	Sequence 17, Appl	C 649	17.8	1.1	33	7	US-10-299-054A-2476	Sequence 2476, Ap
C 577	18	1.1	42	7	US-10-367-892-540	Sequence 540, Appl	C 650	17.8	1.1	33	7	US-10-299-054A-2476	Sequence 2476, Ap
C 578	18	1.1	42	7	US-10-367-892-7066	Sequence 7066, Ap	C 651	17.8	1.1	34	8	US-10-287-787-24709	Sequence 24709, A
C 579	18	1.1	42	7	US-10-367-892-7067	Sequence 7067, Ap	C 652	17.8	1.1	34	8	US-10-287-787-24709	Sequence 24709, A
C 580	18	1.1	42	7	US-10-299-054A-320	Sequence 320, Appl	C 653	17.8	1.1	35	7	US-10-299-054A-1919	Sequence 1919, Ap
C 581	18	1.1	42	7	US-10-211-088-100	Sequence 100, Appl	C 654	17.8	1.1	36	7	US-10-299-054A-6990	Sequence 6990, Ap
C 582	18	1.1	43	8	US-10-316-956-855	Sequence 855, Ap	C 655	17.8	1.1	36	8	US-10-270-555-12	Sequence 12, Appl
C 583	18	1.1	43	8	US-10-288-232-26840	Sequence 26840, A	C 656	17.8	1.1	37	7	US-10-299-054A-3736	Sequence 3736, Ap
C 584	18	1.1	43	8	US-10-287-787-25747	Sequence 25747, A	C 657	17.8	1.1	37	7	US-10-287-787-1703	Sequence 1703, Ap
C 585	18	1.1	43	8	US-10-287-787-25747	Sequence 25747, A	C 658	17.8	1.1	38	1	PCT-US02-22868-30	Sequence 30, Appl
C 586	18	1.1	43	8	US-10-287-787-25747	Sequence 25747, A	C 659	17.8	1.1	38	1	US-10-299-054A-2200	Sequence 2200, Ap
C 587	18	1.1	43	8	US-10-287-787-25747	Sequence 25747, A	C 660	17.8	1.1	39	6	US-10-299-054A-2236	Sequence 2236, Ap
C 588	18	1.1	44	7	US-10-287-787-25747	Sequence 25747, A	C 661	17.8	1.1	39	7	US-10-299-054A-2236	Sequence 2236, Ap
C 589	18	1.1	44	7	US-10-287-787-25747	Sequence 25747, A	C 662	17.8	1.1	39	7	US-10-299-054A-2236	Sequence 2236, Ap
C 590	18	1.1	44	7	US-10-287-787-25747	Sequence 25747, A	C 663	17.8	1.1	39	7	US-10-299-054A-2236	Sequence 2236, Ap
C 591	18	1.1	44	7	US-10-287-787-25747	Sequence 25747, A	C 664	17.8	1.1	39	7	US-10-299-054A-2236	Sequence 2236, Ap
C 592	18	1.1	45	7	US-10-367-892-6031	Sequence 6031, Ap	C 665	17.8	1.1	39	7	US-10-299-054A-2236	Sequence 2236, Ap
C 593	18	1.1	45	7	US-10-367-892-6031	Sequence 6031, Ap	C 666	17.8	1.1	40	6	PCT-US02-26708-37	Sequence 37, Appl
C 594	18	1.1	45	7	US-10-287-787-17473	Sequence 17473, A	C 667	17.8	1.1	40	6	US-10-367-892-16002	Sequence 16002, A
C 595	18	1.1	45	8	US-10-282-960-8	Sequence 8, Appl	C 668	17.8	1.1	40	7	US-10-367-892-16002	Sequence 16002, A
C 596	18	1.1	45	8	US-10-282-960-8	Sequence 8, Appl	C 669	17.8	1.1	40	7	US-10-367-892-16002	Sequence 16002, A
C 597	18	1.1	47	7	US-10-349-143-2081	Sequence 143, Appl	C 670	17.8	1.1	41	7	US-10-367-892-1287	Sequence 1287, Appl
C 598	18	1.1	48	1	PCT-US02-26708-22	Sequence 22, Appl	C 671	17.8	1.1	41	7	US-10-367-892-1287	Sequence 1287, Appl
C 599	18	1.1	48	1	PCT-US02-26708-22	Sequence 22, Appl	C 672	17.8	1.1	41	7	US-10-367-892-1287	Sequence 1287, Appl
C 600	18	1.1	48	7	US-10-367-892-15934	Sequence 15934, A	C 673	17.8	1.1	42	7	US-10-299-054A-2236	Sequence 2236, Ap
C 601	18	1.1	48	7	US-10-367-892-15934	Sequence 15934, A	C 674	17.8	1.1	42	7	US-10-299-054A-2236	Sequence 2236, Ap
C 602	18	1.1	48	7	US-10-367-892-15934	Sequence 15934, A	C 675	17.8	1.1	42	7	US-10-299-054A-2236	Sequence 2236, Ap
C 603	18	1.1	48	7	US-10-287-787-16488	Sequence 16488, A	C 676	17.8	1.1	42	7	US-10-299-054A-2236	Sequence 2236, Ap
C 604	18	1.1	48	8	US-10-224-683-32	Sequence 32, Appl	C 677	17.8	1.1	43	7	US-10-287-787-24733	Sequence 24733, A
C 605	18	1.1	49	1	PCT-US02-30458-53	Sequence 53, Appl	C 678	17.8	1.1	43	7	US-10-287-787-24733	Sequence 24733, A
C 606	18	1.1	49	7	US-10-367-892-7604	Sequence 7604, Ap	C 679	17.8	1.1	43	7	US-10-299-054A-10430	Sequence 10430, A
C 607	18	1.1	49	7	US-10-287-787-5445	Sequence 5445, Ap	C 680	17.8	1.1	43	7	US-10-299-054A-10430	Sequence 10430, A
C 608	18	1.1	50	6	US-10-287-787-9291	Sequence 9291, Ap	C 681	17.8	1.1	44	7	US-10-299-054A-10450	Sequence 10450, A
					US-09-912-293-174987	Sequence 174987, A							

828	17.6	1.1	48	8	US-10-079-709-14	Sequence 14, Appl	901	17.4	1.1	45	7	US-10-299-054A-10846	Sequence 10846, A
C 829	17.6	1.1	49	7	US-10-367-887-3822	Sequence 3822, Ap	902	17.4	1.1	45	7	US-10-299-054A-10848	Sequence 10848, A
C 830	17.6	1.1	49	7	US-10-287-787-439	Sequence 439, App	903	17.4	1.1	45	7	US-10-287-787-19197	Sequence 19197, A
831	17.6	1.1	49	8	US-10-316-954-2533	Sequence 2533, Ap	904	17.4	1.1	45	7	US-10-299-054A-3283	Sequence 3283, A
832	17.6	1.1	50	6	US-09-912-293-151340	Sequence 151340,	C 905	17.4	1.1	46	7	US-10-299-054A-9593	Sequence 9593, A
833	17.6	1.1	50	6	US-09-912-293-151340	Sequence 206403,	C 906	17.4	1.1	46	7	US-10-299-054A-9593	Sequence 20535, A
C 834	17.6	1.1	50	6	US-10-299-054A-10698	Sequence 10698, A	C 907	17.4	1.1	46	7	US-10-287-787-25024	Sequence 25024, A
C 835	17.4	1.1	19	8	US-10-310-188-64402	Sequence 64402, A	C 908	17.4	1.1	47	7	US-10-287-787-20535	Sequence 15747, A
C 836	17.4	1.1	19	8	US-10-310-188-64402	Sequence 72649, A	C 909	17.4	1.1	47	7	US-10-367-892-15747	Sequence 15747, A
837	17.4	1.1	22	8	US-10-293-338-72649	Sequence 72649, A	C 910	17.4	1.1	47	7	US-10-299-054A-10834	Sequence 10834, A
838	17.4	1.1	22	8	US-10-310-188-7246	Sequence 7246, Ap	C 911	17.4	1.1	47	7	US-10-299-054A-10834	Sequence 10834, A
839	17.4	1.1	25	8	US-10-355-577-254344	Sequence 61175, A	C 912	17.4	1.1	47	7	US-10-299-054A-10834	Sequence 61175, A
840	17.4	1.1	25	8	US-10-427-808-451372	Sequence 451372,	C 913	17.4	1.1	47	7	US-10-287-787-6060	Sequence 6060, Ap
841	17.4	1.1	26	8	US-10-278-060-1	Sequence 1, Appli	C 914	17.4	1.1	47	7	US-10-287-787-18121	Sequence 18121, A
842	17.4	1.1	27	8	US-10-299-054A-3145	Sequence 3145, Ap	C 915	17.4	1.1	47	7	US-10-287-787-24713	Sequence 24713, A
843	17.4	1.1	27	8	US-10-310-188-70548	Sequence 70548, A	C 916	17.4	1.1	47	7	US-10-287-787-24713	Sequence 24713, A
844	17.4	1.1	28	7	US-10-367-892-15477	Sequence 15477, A	C 917	17.4	1.1	48	6	US-09-148-3847	Sequence 3847, Ap
845	17.4	1.1	29	1	PCT-US02-38612-4	Sequence 4, Appli	C 918	17.4	1.1	48	6	US-09-148-3847	Sequence 10, Appl
C 846	17.4	1.1	30	7	US-10-299-054A-10847	Sequence 10847, A	C 919	17.4	1.1	48	7	US-10-287-787-16488	Sequence 16488, A
C 847	17.4	1.1	30	7	US-10-287-787-7887	Sequence 7887, Ap	C 920	17.4	1.1	49	6	US-09-785-6328-8	Sequence 26799, A
C 848	17.4	1.1	30	7	US-10-287-787-19371	Sequence 19371, A	C 921	17.4	1.1	49	6	US-10-287-787-26979	Sequence 26979, A
C 849	17.4	1.1	30	8	US-10-281-513-229	Sequence 229, App	C 922	17.4	1.1	49	6	US-09-813-996C-19414	Sequence 19414, A
850	17.4	1.1	31	7	US-10-367-892-3820	Sequence 3820, Ap	C 923	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 19423, A
851	17.4	1.1	31	7	US-10-367-892-1589	Sequence 1589, App	C 924	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 15638, A
C 852	17.4	1.1	32	7	US-10-367-892-11833	Sequence 11833, A	C 925	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 23, Appl
C 853	17.4	1.1	33	7	US-10-367-892-11833	Sequence 14270, A	C 926	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 117, App
C 854	17.4	1.1	34	7	US-10-367-892-11833	Sequence 14270, A	C 927	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 48078, A
C 855	17.4	1.1	35	7	US-10-367-892-11833	Sequence 14270, A	C 928	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 85925, A
C 856	17.4	1.1	35	7	US-10-367-892-11833	Sequence 14270, A	C 929	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 9707, App
C 857	17.4	1.1	35	7	US-10-367-892-11833	Sequence 14270, A	C 930	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 33, Appl
C 858	17.4	1.1	35	7	US-10-367-892-11833	Sequence 14270, A	C 931	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 1357, Ap
C 859	17.4	1.1	35	8	US-10-192-078-8	Sequence 8, Appli	C 932	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 2488, Ap
C 860	17.4	1.1	36	7	US-10-299-054A-1750	Sequence 1750, Ap	C 933	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 3779, Ap
C 861	17.4	1.1	36	7	US-10-185-815-67	Sequence 67, Appl	C 934	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 3779, Ap
C 862	17.4	1.1	37	6	US-09-848-868-15	Sequence 15, Appl	C 935	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 6258, Ap
C 863	17.4	1.1	37	6	US-10-299-054A-9484	Sequence 9484, Ap	C 936	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 6258, Ap
C 864	17.4	1.1	37	8	US-10-287-787-9456	Sequence 9456, Ap	C 937	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 58413, A
C 865	17.4	1.1	37	8	US-10-287-787-9456	Sequence 1573, Ap	C 938	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 60894, A
C 866	17.4	1.1	37	9	US-60-288-292-15753	Sequence 15753, A	C 939	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 60894, A
C 867	17.4	1.1	38	7	US-10-287-787-10196	Sequence 10196, A	C 940	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 29478, A
C 868	17.4	1.1	38	7	US-10-287-787-10196	Sequence 10196, A	C 941	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 49888, A
C 869	17.4	1.1	38	7	US-10-287-787-10196	Sequence 10196, A	C 942	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 870	17.4	1.1	38	7	US-10-287-787-10196	Sequence 10196, A	C 943	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 6811, Ap
C 871	17.4	1.1	38	7	US-10-287-787-10196	Sequence 10196, A	C 944	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 17317, A
C 872	17.4	1.1	39	7	US-10-367-892-1581	Sequence 1581, A	C 945	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 15480, A
C 873	17.4	1.1	39	7	US-10-367-892-1581	Sequence 1581, A	C 946	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 29553, A
C 874	17.4	1.1	40	6	US-09-548-797B-169	Sequence 169, App	C 947	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 70671, A
C 875	17.4	1.1	40	6	US-09-548-797B-169	Sequence 169, App	C 948	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 876	17.4	1.1	41	1	PCT-US02-26708-62	Sequence 26708, A	C 949	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 877	17.4	1.1	41	1	US-10-287-787-19240	Sequence 19240, A	C 950	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 878	17.4	1.1	41	7	US-10-287-787-19240	Sequence 19240, A	C 951	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 879	17.4	1.1	41	8	US-10-277-216-241	Sequence 216, App	C 952	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 880	17.4	1.1	41	8	US-10-277-216-241	Sequence 216, App	C 953	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 881	17.4	1.1	41	8	US-10-277-216-241	Sequence 216, App	C 954	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 882	17.4	1.1	41	9	US-60-449-155-756	Sequence 756, App	C 955	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 883	17.4	1.1	42	1	PCT-US02-36204-22	Sequence 36204, A	C 956	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 884	17.4	1.1	42	1	US-10-367-892-7790	Sequence 7790, App	C 957	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 885	17.4	1.1	42	7	US-10-299-054A-9471	Sequence 9471, Ap	C 958	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 886	17.4	1.1	42	7	US-10-299-054A-10819	Sequence 10819, A	C 959	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 887	17.4	1.1	42	8	US-10-148-936-14	Sequence 936, App	C 960	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 888	17.4	1.1	42	8	US-10-148-936-14	Sequence 936, App	C 961	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 889	17.4	1.1	42	8	US-10-293-983-22	Sequence 293, A	C 962	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 890	17.4	1.1	43	7	US-10-299-054A-10829	Sequence 10829, A	C 963	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 891	17.4	1.1	43	7	US-10-299-054A-10829	Sequence 10829, A	C 964	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 892	17.4	1.1	43	7	US-10-287-787-6423	Sequence 6423, Ap	C 965	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 893	17.4	1.1	43	7	US-10-287-787-6423	Sequence 6423, Ap	C 966	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 894	17.4	1.1	44	7	US-10-287-787-9234	Sequence 9234, Ap	C 967	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 895	17.4	1.1	44	7	US-10-287-787-9234	Sequence 9234, Ap	C 968	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 896	17.4	1.1	45	7	US-10-299-054A-10820	Sequence 10820, A	C 969	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 897	17.4	1.1	45	7	US-10-299-054A-10821	Sequence 10821, A	C 970	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 898	17.4	1.1	45	7	US-10-299-054A-10833	Sequence 10833, A	C 971	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 899	17.4	1.1	45	7	US-10-299-054A-10834	Sequence 10834, A	C 972	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl
C 900	17.4	1.1	45	7	US-10-299-054A-10835	Sequence 10835, A	C 973	17.4	1.1	50	6	US-09-513-996C-19423	Sequence 12, Appl

ALIGNMENTS

Query Match	1.9%;	Score 30;	DB 8;	Length 30;
Best Local Similarity	100.0%;	Pred. No. 1.4e+04;		
Matches	30;	Conservative 0;	Mismatches 0;	Indels 0;
				Gaps

OY	691	TATCCACTGCTCGGTGAAGCAGAGAAGTTC	720
D8	1	TATCCACTGCTCGGTGAAGCAGAGAAGTTC	30

Query Match	1.7%	Score 26.4	DB 7	Length 44
Similarity		Pred. No. 5	9e+04	
Best Local	75.0%			
Matches 33	Conservative	0	Mismatches 11	Indels 0
				Gaps 0

RESULT 3
US-10-299-054A-10448/c
: Sequence 10448, Application US/10299054A

```

1 CURRENT PTLING DATE: 2003-03-03
2
3 NUMBER OF SEO ID NOS: 11910
4
5 SOFTWARE: Proprietary
6

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; LOCATION (3933994) ... (3934039)
; OTHER INFORMATION: Chromosome = 1 Strand = negative
US-10-299-054A-10448 ConnecttronObjectNumber =

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OY 1337 GACCGCGGCGGGAGCAGCGCGCGGCACCGCGCGGGCGGC 1378
| | | | | | | | | | | | | | | |
Dd 45 GGCCGCGCGCTGACGCGCGCGATGGGGCCAGCGGTCTCGGC 4

```

: GENERAL INFORMATION:
: APPLICANT: Feldmann, Richard J.; Global Determinants, Inc.
: TITLE OF INVENTION: Mycobacterium tuberculosis complete genome.
: ADDRESS OF INVENTOR: 10000 Regent Law Offices - 703-684-8333

```

```

      :  

      :   SEO ID NO 10430  

      :     LENGTH: 43  

      :  

      : TYPE: DNA  

      : ORGANISM: Mycobacterium tuberculosis complete genome.  


```

Query Match	1.68;	Score 25.6;	DB 7;	Length 43;
Best Local Similarity	77.58;	Pred. No. 8.1e+04;		
Matches 31; Conservative	0;	Mismatches 9;	Indels 0;	Gaps 0;


```

Query Match: 1.6%; Score 25.6; DB 8; Length 50;
Best Local Similarity 87.5%; Pred. No. 8.2e+04;
Matches 28; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

DY      1353 GCGGCGGGGGGACCGCGGGCGGCGGC GC 1384
          ||| | | | | | | | | | | | | | | | | |
Db       45  GCGGCGGCGGCGGCGGCGGCGGCGGCGGCGC 14

RESULT 9
US-10-303-778-10110/c
Sequence 10110, Application US/10303778
GENERAL INFORMATION:
APPLICANT: RosettaGenomics
TITLE OF INVENTION: BIOINFORMATICALLY DETECTABLE GROUP OF NOVEL VIRAL
FILE REFERENCE: 47416
CURRENT APPLICATION NUMBER: US/10/303,778
CURRENT FILING DATE: 2002-11-26
NUMBER OF SEQ ID NOS: 17608
SOFTWARE: patentin version 3.1
SEQ ID NO 10110
LENGTH: 25
TYPE: DNA

```


Query Match	1.5%;	Score 23.4;	DB 9;	Length 25;
Best Local Similarity	96.0%;	Pred. No. 1.8e+05;		

```

; SEQ ID NO 7
; LENGTH: 2

```

ORGANISM: Mus musculus
US-60-427-808-765746

Query Match 1.5%; Score 23.4; DB 9; Length 25;
Best Local Similarity 96.0%; Pred. No. 1.8e+05;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 908 TACGTGATGAGCGGCGGC 932
Db 1 TACGTGATGAGACGCTGAGCGCC 25

RESULT 20

US-60-427-808-807373
Sequence 807373, Application US/60427808

GENERAL INFORMATION:

APPLICANT: Xue Mei Zhou

TITLE OF INVENTION: Methods of Genetic Analysis of Mouse

FILE REFERENCE: 3528

CURRENT APPLICATION NUMBER: US/60/427,808

CURRENT FILING DATE: 2002-11-20

NUMBER OF SEQ ID NOS: 982914

SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

SEQ ID NO 807373

LENGTH: 25

TYPE: DNA

ORGANISM: Mus musculus

US-60-427-808-807373

Query Match

Best Local Similarity 96.0%; Pred. No. 1.8e+05;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1248 TCATCGAGAGACACGCTGGCGCA 1272
Db 1 TCATCGAGAGACACGCTGGCGCA 25

RESULT 21

US-60-427-808-879497
Sequence 879497, Application US/60427808

GENERAL INFORMATION:

APPLICANT: Xue Mei Zhou

TITLE OF INVENTION: Methods of Genetic Analysis of Mouse

FILE REFERENCE: 3528

CURRENT APPLICATION NUMBER: US/60/427,808

CURRENT FILING DATE: 2002-11-20

NUMBER OF SEQ ID NOS: 982914

SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

SEQ ID NO 879497

LENGTH: 25

TYPE: DNA

ORGANISM: Mus musculus

US-60-427-808-879497

Query Match

Best Local Similarity 96.0%; Pred. No. 1.8e+05;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 876 TGGACCGGAGCGCGCCAGAA 900
Db 1 TGGACCGGAGCGCGCCAGAA 25

RESULT 22

US-60-427-836-90500
Sequence 90500, Application US/60427836

GENERAL INFORMATION:

APPLICANT: Xue Mei Zhou

TITLE OF INVENTION: Methods of Genetic Analysis of Rat

FILE REFERENCE: 3527

CURRENT APPLICATION NUMBER: US/60/427,836

CURRENT FILING DATE: 2002-11-20

NUMBER OF SEQ ID NOS: 699466
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 90500
LENGTH: 25
TYPE: DNA
ORGANISM: Rattus norvegicus
US-60-427-836-90500

Query Match 1.5%; Score 23.4; DB 9; Length 25;
Best Local Similarity 96.0%; Pred. No. 1.8e+05;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1203 AGGCACCATCTCATCAACCGGT 1227
Db 1 ACGGCACCATCTCATCAACCGGT 25

RESULT 23
US-60-427-836-238304
Sequence 238304, Application US/60427836

GENERAL INFORMATION:

APPLICANT: Xue Mei Zhou

TITLE OF INVENTION: Methods of Genetic Analysis of Rat

FILE REFERENCE: 3527

CURRENT APPLICATION NUMBER: US/60/427,836

CURRENT FILING DATE: 2002-11-20

NUMBER OF SEQ ID NOS: 699466

SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

SEQ ID NO 238304

LENGTH: 25

TYPE: DNA

ORGANISM: Rattus norvegicus

US-60-427-836-238304

Query Match

Best Local Similarity 96.0%; Pred. No. 1.8e+05;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1249 CATCGAGAGACACGCTGGCGCAC 1273
Db 1 CATCGAGAGACACGCTGGCGCAC 25

RESULT 24

US-60-427-836-454484
Sequence 454484, Application US/60427836

GENERAL INFORMATION:

APPLICANT: Xue Mei Zhou

TITLE OF INVENTION: Methods of Genetic Analysis of Rat

FILE REFERENCE: 3527

CURRENT APPLICATION NUMBER: US/60/427,836

CURRENT FILING DATE: 2002-11-20

NUMBER OF SEQ ID NOS: 699466

SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1

SEQ ID NO 454484

LENGTH: 25

TYPE: DNA

ORGANISM: Rattus norvegicus

US-60-427-836-454484

Query Match

Best Local Similarity 96.0%; Pred. No. 1.8e+05;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1441 GGGCATCCACTGCTACGACGCTG 1465
Db 1 GGGCATCCACTGCTACGACGCTG 25

RESULT 25

US-60-427-836-591791
Sequence 591791, Application US/60427836

GENERAL INFORMATION:

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; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527
; CURRENT APPLICATION NUMBER: US/60/427,836
; CURRENT FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 591791
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; US-60-427-836-591791

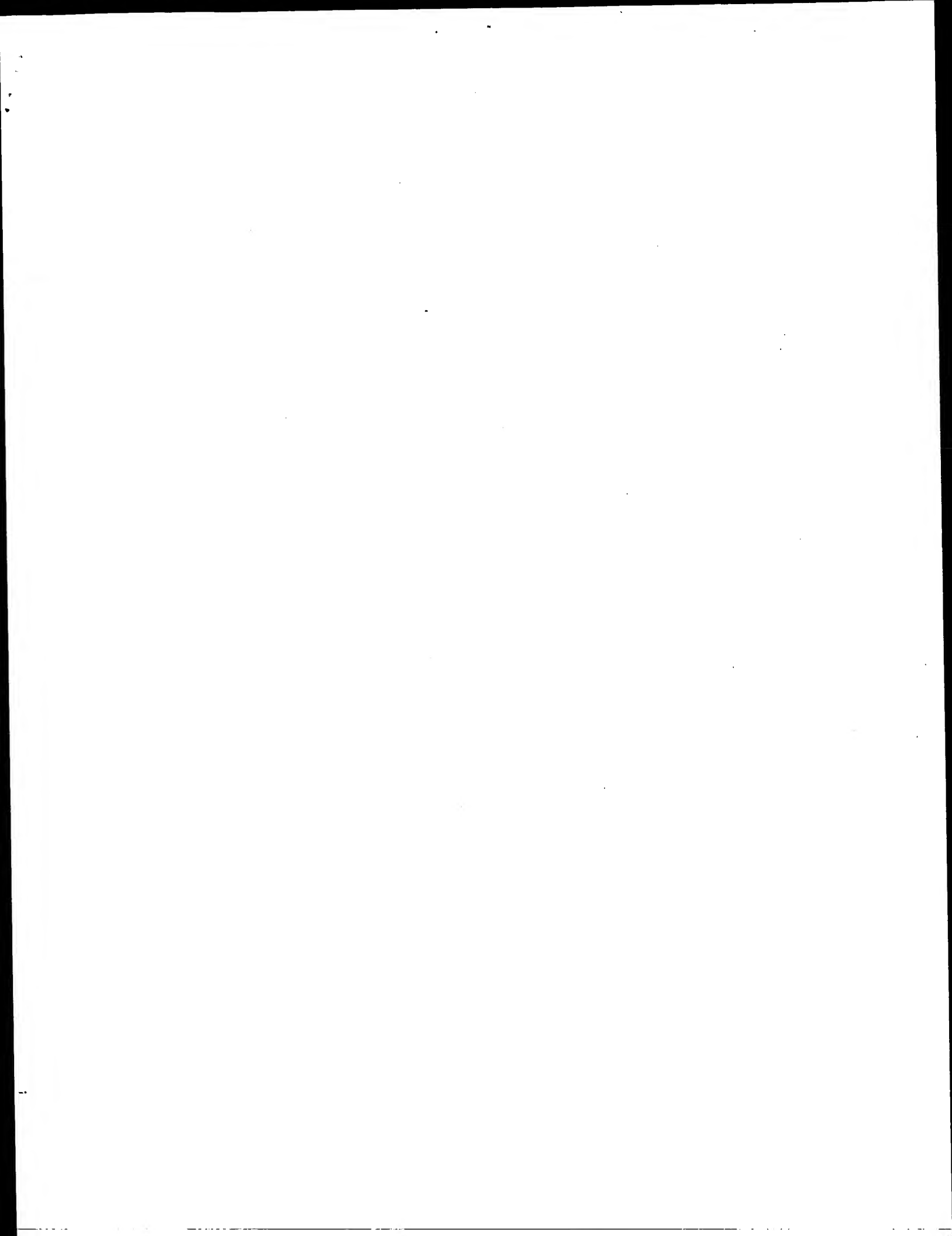
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Query Match
Best Local Similarity 96.0%; Score 23.4; DB 9; Length 25;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1235 TCGTGCTACGCGGTCATCGAGAGC 1259
DB 1 TCGTGCTACGCGGTCATCGAGAGC 25

```

Search completed: March 14, 2003, 01:10:16
Job time : 506 secs



GenCore version 5.1.4.p5_4578
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 13, 2003, 20:53:08 ; Search time 4362 Seconds

(without alignments)
10514.906 Million cell updates/sec

Title: US-10-001-844-3

Perfect score: 1576

Sequence: 1 gcagagcagccagcagagga.....gagggcgccgagggggcc 1576

Scoring table: IDENTITY_NIC

Gapop 10.0 , Gapept 1.0

Searched: 2054640 segs, 14551402878 residues

Total number of hits satisfying chosen parameters: 841850

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database :

GenEmbl:*

1: gb_da:*

2: gb_hlg:*

3: gb_in:*

4: gb_om:*

5: gb_ov:*

6: gb_pat:*

7: gb_ph:*

8: gb_pl:*

9: gb_pr:*

10: gb_ro:*

11: gb_sts:*

12: gb_sy:*

13: gb_un:*

14: gb_vi:*

15: em_da:*

16: em_fun:*

17: em_hum:*

18: em_in:*

19: em_mu:*

20: em_om:*

21: em_or:*

22: em_ov:*

23: em_pat:*

24: em_ph:*

25: em_pl:*

26: em_ro:*

27: em_sts:*

28: em_un:*

29: em_vi:*

30: em_hlg_hum:*

31: em_hlg_inv:*

32: em_hlg_other:*

33: em_hlg_mus:*

34: em_hlg_pln:*

35: em_hlg_rtd:*

36: em_hlg_man:*

37: em_hlg_vtl:*

38: em_sy:*

39: em_higo_hum:*

40: em_higo_mus:*

41: em_higo_other:*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	50	3.2	50	6	AX146582
2	48.4	3.1	50	6	AX146613
3	48.4	3.1	50	6	AX146614
4	45.2	2.9	50	6	AX146616
5	43.8	2.8	47	6	AX146608
6	43.8	2.8	47	6	AX146609
7	43.4	2.8	45	6	AX146612
8	42	2.7	50	6	AX146615
9	41.4	2.6	43	6	AX146617
10	40.6	2.6	47	6	AX146617
11	37.4	2.4	47	6	AX146610
12	31.4	2.0	50	6	AX057285
13	27	1.7	27	9	HSX270316
14	26	1.6	50	6	AR178318
15	26	1.6	50	6	AX323400
16	25	1.6	33	6	T84406
17	24.6	1.6	30	6	AR199385
18	24	1.5	24	6	AR063105
19	24	1.5	24	6	AR122632
20	24	1.5	24	6	AR164260
21	24	1.5	24	6	AR208932
22	22.2	1.4	45	6	T20760
23	23.6	1.5	30	6	T84401
24	23.6	1.5	31	6	A01419
25	22.4	1.4	32	6	A62993
26	22.4	1.4	43	6	AR179068
27	22.4	1.4	43	6	A28677
28	22.2	1.4	50	6	AX397845
29	22	1.4	23	6	HSX270315
30	22	1.4	29	6	AX146574
31	22	1.4	29	6	AX146574
32	22	1.4	44	6	A28674
33	22	1.4	50	8	SSREP2
34	21.8	1.4	35	6	I45648
35	21.8	1.4	50	4	S72333
36	21.8	1.4	50	5	XELRG2
37	21.6	1.4	40	6	A98997
38	21.6	1.4	40	6	AR195314
39	21.6	1.4	48	6	A21991
40	21.6	1.4	49	6	A21992
41	21.4	1.4	31	6	A62992
42	21.4	1.4	31	6	AR179067
43	21.4	1.4	50	6	AR137495
44	21.4	1.4	50	9	HSX141
45	21.2	1.3	49	6	AX397846
46	21	1.3	47	6	A28685
47	21	1.3	50	6	AR032762
48	21	1.3	50	6	AR209426
49	21	1.3	50	6	AX198622
50	21	1.3	50	6	T29502
51	21	1.3	50	6	T91176
52	20.8	1.3	43	6	AX002786
53	20.8	1.3	43	6	AX149545
54	20.8	1.3	46	6	A92687
55	20.8	1.3	46	6	AX002787
56	20.8	1.3	47	6	AX149535
57	20.8	1.3	49	6	AX279826
58	20.8	1.3	50	6	A51123
59	20.8	1.3	50	6	AX199605
60	20.6	1.3	38	6	AX207477
61	20.6	1.3	41	6	AX327055
62	20.6	1.3	43	6	A28678
63	20.6	1.3	45	6	A05111
64	20.6	1.3	45	6	AR145517
65	20.6	1.3	45	6	AR145517

66	20.6	1.3	48	6	A47495	A47495 Sequence 2	C 139	19.2	1.2	49	6	AX107693	AX107693 Sequence
67	20.6	1.3	50	6	AX157874	AX157874 Sequence	C 140	19.2	1.2	49	6	I29533	I29533 Sequence 40
68	20.4	1.3	30	6	A62990	A62990 Sequence 2	C 141	19.2	1.2	49	6	I91207	I91207 Sequence 40
69	20.4	1.3	30	6	A62996	A62996 Sequence 8	C 142	19.2	1.2	50	6	AX160636	AX160636 Sequence
70	20.4	1.3	30	6	AR179065	AR179065 Sequence	C 143	19.2	1.2	50	6	I89841	I89841 Sequence 12
71	20.4	1.3	30	6	AR179071	AR179071 Sequence	C 144	19.2	1.2	19	6	AR154250	AR154250 Sequence
72	20.4	1.3	30	6	AX104904	AX104904 Sequence	C 145	19.2	1.2	19	6	AR154254	AR154254 Sequence
73	20.4	1.3	30	6	AX477343	AX477343 Sequence	C 146	19.2	1.2	19	6	AR154573	AR154573 Sequence
74	20.4	1.3	35	6	AX104579	AX104579 Sequence	C 147	19.2	1.2	30	6	AX146573	AX146573 Sequence
75	20.4	1.3	35	6	AX355144	AX355144 Sequence	C 148	19.2	1.2	30	6	AX417111	AX417111 Sequence
76	20.4	1.3	40	6	AR184470	AR184470 Sequence	C 149	19.2	1.2	35	6	AX252313	AX252313 Sequence
77	20.4	1.3	40	6	AX406837	AX406837 Sequence	C 150	19.2	1.2	35	6	A94124	A94124 Sequence 2
78	20.4	1.3	40	6	E13253	E13253 Oligonucleo	C 151	19.2	1.2	36	6	AX014659	AX014659 Sequence
79	20.4	1.3	41	6	AR106716	AR106716 Sequence	C 152	19.2	1.2	36	6	AX402097	AX402097 Sequence
80	20.4	1.3	41	6	AR202527	AR202527 Sequence	C 153	19.2	1.2	36	6	E50995	E50995 Hedgehog pr
81	20.4	1.3	44	6	AR199384	AR199384 Sequence	C 154	19.2	1.2	36	6	AX403811	AX403811 Sequence
82	20.4	1.3	49	6	A21777	A21777 Oligonucleo	C 155	19.2	1.2	39	6	AR201228	AR201228 Sequence
83	20.4	1.3	49	6	AX279808	AX279808 Sequence	C 156	19.2	1.2	39	6	AX081636	AX081636 Sequence
84	20.4	1.3	50	6	AR137494	AR137494 Sequence	C 157	19.2	1.2	41	6	AR206162	AR206162 Sequence
85	20.2	1.3	40	6	AX472253	AX472253 Sequence	C 158	19.2	1.2	43	6	AX180257	AX180257 Sequence
86	20.2	1.3	40	6	E05618	E05618 Primer for	C 159	19.2	1.2	44	6	E11299	E11299 PCR primer
87	20.2	1.3	46	6	A92686	A92686 Sequence 1	C 160	19.2	1.2	45	6	A38923	A38923 Sequence 10
88	20.2	1.3	46	6	AR032473	AR032473 Sequence	C 161	19.2	1.2	45	6	AR054319	AR054319 Sequence
89	20.2	1.3	46	6	AR209137	AR209137 Sequence	C 162	19.2	1.2	46	6	HS034722	HS034722 Sequence
90	20.2	1.3	46	6	I29213	I29213 Sequence 85	C 163	19.2	1.2	47	6	AX004825	AX004825 Sequence
91	20.2	1.3	46	6	I90887	I90887 Sequence 85	C 164	19.2	1.2	47	6	AX057285	AX057285 Sequence
92	20.2	1.3	47	6	AR071857	AR071857 Sequence	C 165	19.2	1.2	50	6	AX07285	AX07285 Sequence
93	20.2	1.3	47	6	AR112597	AR112597 Sequence	C 166	19.2	1.2	50	6	HSHTX1A4	HSHTX1A4 Sequence
94	20.2	1.3	48	6	AR129985	AR129985 Sequence	C 167	19.2	1.2	50	6	AX067720	AX067720 Sequence
95	20.2	1.3	48	6	AR205077	AR205077 Sequence	C 168	19.2	1.2	32	6	AX108708	AX108708 Sequence
96	20.2	1.3	48	6	AX149574	AX149574 Sequence	C 169	19.2	1.2	32	6	AR201228	AR201228 Sequence
97	20.2	1.3	48	6	AX356948	AX356948 Sequence	C 170	19.2	1.2	39	6	AX080628	AX080628 Sequence
98	20.2	1.3	35	6	AR16992	AR16992 Sequence	C 171	19.2	1.2	40	6	AR055062	AR055062 Sequence
99	20.2	1.3	45	6	AX080806	AX080806 Sequence	C 172	19.2	1.2	40	6	AR156311	AR156311 Sequence
100	20.2	1.3	45	6	AX191434	AX191434 Sequence	C 173	19.2	1.2	40	6	AX288072	AX288072 Sequence
101	20.2	1.3	45	6	AX403235	AX403235 Sequence	C 174	19.2	1.2	41	6	A38181	A38181 Sequence 25
102	20.2	1.3	45	6	I30008	I30008 Sequence 14	C 175	19.2	1.2	42	6	AX288063	AX288063 Sequence
103	20.2	1.3	45	6	I93784	I93784 Sequence 14	C 176	19.2	1.2	42	6	AX288064	AX288064 Sequence
104	20.2	1.3	47	12	SYNPRMA	SYNPRMA Artificial	C 177	19.2	1.2	44	6	A21445	A21445 Oligonucleo
105	20.2	1.3	47	12	AR024001	AR024001 Sequence	C 178	19.2	1.2	44	6	A37850	A37850 Sequence 20
106	20.2	1.3	50	6	E12787	E12787 DNA probe f	C 179	19.2	1.2	44	6	AR069888	AR069888 Sequence
107	20.2	1.3	50	6	AX194734	AX194734 Sequence	C 180	19.2	1.2	44	6	AR092885	AR092885 Sequence
108	19.8	1.3	47	6	E00071	E00071 Partial CDN	C 181	19.8	1.2	44	6	AR124169	AR124169 Sequence
109	19.8	1.3	42	6	AR210880	AR210880 Sequence	C 182	19.8	1.2	44	6	E43912	E43912 Novel vecto
110	19.6	1.2	42	6	AX027549	AX027549 Sequence	C 183	19.8	1.2	44	6	AX068136	AX068136 Sequence
111	19.6	1.2	46	6	E32206	E32206 Method for	C 184	19.8	1.2	45	6	AX068137	AX068137 Sequence
112	19.6	1.2	46	6	AX207748	AX207748 Sequence	C 185	19.8	1.2	45	6	E02957	E02957 Signal repe
113	19.6	1.2	48	6	I18452	I18452 Sequence 75	C 186	19.8	1.2	45	6	AX190432	AX190432 Sequence
114	19.6	1.2	50	6	AX288078	AX288078 Sequence	C 187	19.8	1.2	45	6	AR055043	AR055043 Sequence
115	19.4	1.2	29	6	A11717	A11717 Oligonucleo	C 188	19.8	1.2	47	6	AR156292	AR156292 Sequence
116	19.4	1.2	33	6	A11718	A11718 Oligonucleo	C 189	19.8	1.2	47	6	AR156292	AR156292 Sequence
117	19.4	1.2	33	6	I14316	I14316 Sequence 13	C 190	19.8	1.2	48	6	AR101902	AR101902 Sequence
118	19.4	1.2	37	6	AX288079	AX288079 Sequence	C 191	19.8	1.2	48	6	AR130422	AR130422 Sequence
119	19.4	1.2	43	6	AR161404	AR161404 Sequence	C 192	19.8	1.2	48	6	AX278749	AX278749 Sequence
120	19.4	1.2	43	6	A04202	A04202 Nucleotide	C 193	19.8	1.2	48	6	AX279916	AX279916 Sequence
121	19.4	1.2	49	6	AX157798	AX157798 Sequence	C 194	19.8	1.2	48	6	AX279656	AX279656 Sequence
122	19.4	1.2	49	6	AX202437	AX202437 Sequence	C 195	19.8	1.2	49	6	AX279657	AX279657 Sequence
123	19.4	1.2	50	6	AX327693	AX327693 Sequence	C 196	19.8	1.2	49	6	AX279825	AX279825 Sequence
124	19.2	1.2	24	6	AX326735	AX326735 Sequence	C 197	19.8	1.2	49	6	AR028113	AR028113 Sequence
125	19.2	1.2	33	6	AR193727	AR193727 Sequence	C 198	19.8	1.2	25	6	AR030289	AR030289 Sequence
126	19.2	1.2	36	6	E13926	E13926 Primer 4/1	C 199	19.8	1.2	25	6	I42108	I42108 Sequence 3
127	19.2	1.2	41	6	E16035	E16035 DNA primer	C 200	19.8	1.2	25	6	AX010555	AX010555 Sequence
128	19.2	1.2	41	6	AR035287	AR035287 Sequence	C 201	19.8	1.2	28	6	AX050277	AX050277 Sequence
129	19.2	1.2	42	6	I31473	I31473 Sequence 38	C 202	19.8	1.2	36	6	AX059027	AX059027 Sequence
130	19.2	1.2	44	6	AX068135	AX068135 Sequence	C 203	19.8	1.2	36	6	A94787	A94787 Sequence 31
131	19.2	1.2	45	6	I20761	I20761 Sequence 14	C 204	19.8	1.2	38	6	AR118818	AR118818 Sequence
132	19.2	1.2	47	6	AR030771	AR030771 Sequence	C 205	19.8	1.2	44	6	AX080806	AX080806 Sequence
133	19.2	1.2	47	6	AR101775	AR101775 Sequence	C 206	19.8	1.2	44	6	AX191434	AX191434 Sequence
134	19.2	1.2	47	6	AR073450	AR073450 Sequence	C 207	19.8	1.2	45	6	AX403235	AX403235 Sequence
135	19.2	1.2	48	6	AX222000	AX222000 Sequence	C 208	19.8	1.2	45	6		
136	19.2	1.2	48	6	AR032793	AR032793 Sequence	C 209	19.8	1.2	45	6		
137	19.2	1.2	49	6	AR209457	AR209457 Sequence	C 210	19.8	1.2	45	6		
138	19.2	1.2	49	6			C 211	19.8	1.2	45	6		

C 212	18.6	1.2	48	6	A47501	A47501 Sequence 8	285	18.2	1.2	48	6	AR202324	AR202324 Sequence
C 213	18.6	1.2	48	6	AX207747	AX207747 Sequence	285	18.2	1.2	48	6	AX059009	AX059009 Sequence
C 214	18.6	1.2	49	6	AR014134	AR014134 Sequence	286	18.2	1.2	48	6	AX229277	AX229277 Sequence
C 215	18.6	1.2	49	6	AX278779	AX278779 Sequence	287	18.2	1.2	48	6	AX229277	AX229277 Sequence
C 216	18.6	1.2	49	6	AX279676	AX279676 Sequence	288	18.2	1.2	48	6	AX453570	AX453570 Sequence
C 217	18.6	1.2	49	6	AX279946	AX279946 Sequence	289	18.2	1.2	48	6	106257	106257 Sequence
C 218	18.6	1.2	49	6	118451	118451 Sequence 74	290	18.2	1.2	48	9	S34436	S34436 glycoprotein
C 219	18.6	1.2	50	6	AR032851	AR032851 Sequence	291	18.2	1.2	49	6	AX279658	AX279658 Sequence
C 220	18.6	1.2	50	6	AR209515	AR209515 Sequence	292	18.2	1.2	49	6	AX279675	AX279675 Sequence
C 221	18.6	1.2	50	6	AX157405	AX157405 Sequence	293	18.2	1.2	49	6	AX279727	AX279727 Sequence
C 222	18.6	1.2	50	6	129591	129591 Sequence 46	294	18.2	1.2	50	6	AR032719	AR032719 Sequence
C 223	18.6	1.2	50	6	191265	191265 Sequence 46	295	18.2	1.2	50	6	AR152520	AR152520 Sequence
C 224	18.4	1.2	28	6	AX104578	AX104578 Sequence	296	18.2	1.2	50	6	AR209383	AR209383 Sequence
C 225	18.4	1.2	31	6	AX355143	AX355143 Sequence	297	18.2	1.2	50	6	AX161854	AX161854 Sequence
C 226	18.4	1.2	31	6	AX249029	AX249029 Sequence	298	18.2	1.2	50	6	AX204297	AX204297 Sequence
C 227	18.4	1.2	32	6	AX288071	AX288071 Sequence	299	18.2	1.2	50	6	129459	129459 Sequence
C 228	18.4	1.2	33	6	AX068142	AX068142 Sequence	300	18.2	1.2	50	6	191133	191133 Sequence
C 229	18.4	1.2	36	6	AX356940	AX356940 Sequence	301	18.2	1.2	50	10	MMWIMV47	MMWIMV47
C 230	18.4	1.2	42	6	100662	100662 Sequence 3	302	18	1.1	18	6	AR154251	AR154251 Sequence
C 231	18.4	1.2	43	6	A50977	A50977 Sequence 18	303	18	1.1	18	6	AR040322	AR040322 Sequence
C 232	18.4	1.2	44	6	AR086388	AR086388 Sequence	304	18	1.1	18	6	AR084542	AR084542 Sequence
C 233	18.4	1.2	44	6	AX001092	AX001092 Sequence	305	18	1.1	18	6	AR206158	AR206158 Sequence
C 234	18.4	1.2	45	6	AX231579	AX231579 Sequence	306	18	1.1	18	6	AR200691	AR200691 Sequence
C 235	18.4	1.2	45	6	160574	160574 Sequence 31	307	18	1.1	18	6	106515	106515 Sequence
C 236	18.4	1.2	47	6	AX211584	AX211584 Sequence	308	18	1.1	18	6	AR38183	AR38183 Sequence
C 237	18.4	1.2	47	6	AX429816	AX429816 Sequence	309	18	1.1	18	6	A42175	A42175 Sequence
C 238	18.4	1.2	47	6	184675	184675 Sequence 9	310	18	1.1	18	6	A50686	A50686 Sequence
C 239	18.4	1.2	48	6	AX207754	AX207754 Sequence	311	18	1.1	18	6	A50722	A50722 Sequence
C 240	18.4	1.2	48	6	AX253583	AX253583 Sequence	312	18	1.1	18	6	AR004820	AR004820 Sequence
C 241	18.4	1.2	49	6	AR032793	AR032793 Sequence	313	18	1.1	18	6	AR035286	AR035286 Sequence
C 242	18.4	1.2	49	6	AR209457	AR209457 Sequence	314	18	1.1	18	6	AR051254	AR051254 Sequence
C 243	18.4	1.2	49	6	AX279597	AX279597 Sequence	315	18	1.1	18	6	AR083317	AR083317 Sequence
C 244	18.4	1.2	49	6	AX279820	AX279820 Sequence	316	18	1.1	18	6	AR116201	AR116201 Sequence
C 245	18.4	1.2	49	6	129533	129533 Sequence 40	317	18	1.1	18	6	AX009738	AX009738 Sequence
C 246	18.4	1.2	49	6	191207	191207 Sequence 40	318	18	1.1	18	6	128383	128383 Sequence
C 247	18.4	1.2	50	6	A07724	A07724 Oligonucleo	319	18	1.1	18	6	171226	171226 Sequence
C 248	18.4	1.2	50	6	A10023	A10023 Nucleotide	320	18	1.1	18	6	A04391	A04391 Sequence
C 249	18.4	1.2	50	6	AR032514	AR032514 Sequence	321	18	1.1	18	6	AR11880	AR11880 Sequence
C 250	18.4	1.2	50	6	AR032869	AR032869 Sequence	322	18	1.1	18	6	AR120683	AR120683 Sequence
C 251	18.4	1.2	50	6	AR209178	AR209178 Sequence	323	18	1.1	18	6	AX322481	AX322481 Sequence
C 252	18.4	1.2	50	6	AR209533	AR209533 Sequence	324	18	1.1	18	6	134859	134859 Sequence
C 253	18.4	1.2	50	6	AX019535	AX019535 Sequence	325	18	1.1	18	6	AX297758	AX297758 Sequence
C 254	18.4	1.2	50	6	AX162468	AX162468 Sequence	326	18	1.1	18	6	AX068135	AX068135 Sequence
C 255	18.4	1.2	50	6	AX165817	AX165817 Sequence	327	18	1.1	18	6	AR157388	AR157388 Sequence
C 256	18.4	1.2	50	6	AX265994	AX265994 Sequence	328	18	1.1	18	6	AX004805	AX004805 Sequence
C 257	18.4	1.2	50	6	129254	129254 Sequence 12	329	18	1.1	18	6	AX004827	AX004827 Sequence
C 258	18.4	1.2	50	6	129609	129609 Sequence 48	330	18	1.1	18	6	AX1195051	AX1195051 Sequence
C 259	18.4	1.2	50	6	190928	190928 Sequence 12	331	18	1.1	18	6	AR032591	AR032591 Sequence
C 260	18.4	1.2	50	6	191283	191283 Sequence 48	332	18	1.1	18	6	AR184250	AR184250 Sequence
C 261	18.4	1.2	24	6	AR063245	AR063245 Sequence	333	18	1.1	18	6	AR184371	AR184371 Sequence
C 262	18.2	1.2	25	6	E16681	E16681 Primer. 7/1	334	18	1.1	18	6	AR209255	AR209255 Sequence
C 263	18.2	1.2	35	6	AR202292	AR202292 Sequence	335	18	1.1	18	6	AX127962	AX127962 Sequence
C 264	18.2	1.2	39	6	AR033894	AR033894 Sequence	336	18	1.1	18	6	AX235582	AX235582 Sequence
C 265	18.2	1.2	39	6	AR175027	AR175027 Sequence	337	18	1.1	18	6	E13605	E13605
C 266	18.2	1.2	39	6	AX032459	AX032459 Sequence	338	18	1.1	18	6	129331	129331
C 267	18.2	1.2	39	6	E11415	E11415 Primer. 9/1	339	18	1.1	18	6	AX279622	AX279622 Sequence
C 268	18.2	1.2	40	6	AR079790	AR079790 Sequence	340	18	1.1	18	6	AX279645	AX279645 Sequence
C 269	18.2	1.2	40	6	AR081320	AR081320 Sequence	341	18	1.1	18	6	F292317504	F292317504
C 270	18.2	1.2	40	6	AR170680	AR170680 Sequence	342	18	1.1	18	6	AR032762	AR032762 Sequence
C 271	18.2	1.2	41	6	A38185	A38185 Sequence 29	343	18	1.1	18	6	AR032862	AR032862 Sequence
C 272	18.2	1.2	43	6	AX077421	AX077421 Sequence	344	18	1.1	18	6	AR162078	AR162078 Sequence
C 273	18.2	1.2	43	6	AX456423	AX456423 Sequence	345	18	1.1	18	6	AR166603	AR166603 Sequence
C 274	18.2	1.2	45	6	AR071841	AR071841 Sequence	346	18	1.1	18	6	AR209426	AR209426 Sequence
C 275	18.2	1.2	45	6	AR112581	AR112581 Sequence	347	18	1.1	18	6	AR209526	AR209526 Sequence
C 276	18.2	1.2	45	6	HSBTA1G1B	HSBTA1G1B Sequence	348	18	1.1	18	6	AX019536	AX019536 Sequence
C 277	18.2	1.2	46	6	AR032572	AR032572 Sequence	349	18	1.1	18	6	AX159942	AX159942 Sequence
C 278	18.2	1.2	46	6	AR209236	AR209236 Sequence	350	18	1.1	18	6	AX160484	AX160484 Sequence
C 279	18.2	1.2	46	6	129312	129312 Sequence 18	351	18	1.1	18	6	BD002070	BD002070
C 280	18.2	1.2	46	6	190986	190986 Sequence 18	352	18	1.1	18	6	129502	129502
C 281	18.2	1.2	47	6	AX278807	AX278807 Sequence	353	18	1.1	18	6	131257	131257
C 282	18.2	1.2	47	6	AX279974	AX279974 Sequence	354	18	1.1	18	6	191176	191176
C 283	18.2	1.2	47	10	MUSIGHV	M22392 Mouse Ig ge	355	18	1.1	18	6		
C 284	18.2	1.2	48	6	A62955	A62955 Sequence 19	356	18	1.1	18	6		
							357	18	1.1	18	6		

C 358	18	1.1	50	6	191276	191276 Sequence 47	C 431	17.6	1.1	45	6	AR026070	AR026070 Sequence
C 359	17.8	1.1	21	6	AR177692	AR177692 Sequence	432	17.6	1.1	45	6	AR085812	AR085812 Sequence
C 360	17.8	1.1	31	6	AX248046	AX248046 Sequence	433	17.6	1.1	45	6	AX010369	AX010369 Sequence
C 361	17.8	1.1	31	6	AX249447	AX249447 Sequence	434	17.6	1.1	45	6	AX010370	AX010370 Sequence
C 362	17.8	1.1	39	6	AX202296	AX202296 Sequence	435	17.6	1.1	45	6	AX472849	AX472849 Sequence
C 363	17.8	1.1	39	6	AX250377	AX250377 Sequence	436	17.6	1.1	45	6	AX472850	AX472850 Sequence
C 364	17.8	1.1	44	6	EL1301	EL1301 PCR primer	437	17.6	1.1	45	6	192648	192648 Sequence 42
C 365	17.8	1.1	45	6	AR032679	AR032679 Sequence	438	17.6	1.1	45	6	AF0430234	AF0430234 Sequence
C 366	17.8	1.1	45	6	AR040714	AR040714 Sequence	439	17.6	1.1	46	6	A38210	A38210 Sequence 54
C 367	17.8	1.1	45	6	AR141182	AR141182 Sequence	440	17.6	1.1	46	6	AX157711	AX157711 Sequence
C 368	17.8	1.1	45	6	AR141183	AR141183 Sequence	441	17.6	1.1	46	6	122397	122397 Sequence 5
C 369	17.8	1.1	45	6	AR209343	AR209343 Sequence	442	17.6	1.1	47	6	AX3558	AX3558 Sequence 3
C 370	17.8	1.1	45	6	129419	129419 Sequence 29	443	17.6	1.1	47	6	AR3558	AR3558 Sequence 3
C 371	17.8	1.1	45	6	191093	191093 Sequence 29	444	17.6	1.1	47	6	AR176118	AR176118 Sequence
C 372	17.8	1.1	45	6	A98794	A98794 Sequence 27	445	17.6	1.1	47	6	AR182398	AR182398 Sequence
C 373	17.8	1.1	46	6	112506	112506 Sequence 28	446	17.6	1.1	47	6	AX194778	AX194778 Sequence
C 374	17.8	1.1	46	6	112507	112507 Sequence 29	447	17.6	1.1	48	6	AX14922	AX14922 oligonucleo
C 375	17.8	1.1	46	6	112508	112508 Sequence 31	448	17.6	1.1	48	6	A19431	A19431 AB1024 olig
C 376	17.8	1.1	46	6	112509	112509 Sequence 32	449	17.6	1.1	48	6	AR026089	AR026089 Sequence
C 377	17.8	1.1	46	6	AR086675	AR086675 Sequence	450	17.6	1.1	48	6	AR195131	AR195131 Sequence
C 378	17.8	1.1	47	6	AX252287	AX252287 Sequence	451	17.6	1.1	48	6	113412	113412 Sequence 14
C 379	17.8	1.1	47	6	MUSIGHV	M22392 Mouse Ig ge	452	17.6	1.1	48	6	S68399	S68399 TCR V Beta
C 380	17.8	1.1	48	6	AR18448	AR18448 oligonucleo	453	17.6	1.1	49	6	AR032650	AR032650 Sequence
C 381	17.8	1.1	48	6	AR000192	AR000192 Sequence	454	17.6	1.1	49	6	AR209314	AR209314 Sequence
C 382	17.8	1.1	48	6	AX207753	AX207753 Sequence	455	17.6	1.1	49	6	AX278769	AX278769 Sequence
C 383	17.8	1.1	49	6	A27752	A27752 Plasmid seq	456	17.6	1.1	49	6	AX279936	AX279936 Sequence
C 384	17.8	1.1	50	6	A14174	A14174 vektorrelte	457	17.6	1.1	49	6	129390	129390 Sequence 26
C 385	17.8	1.1	50	6	A14176	A14176 vektorrelte	458	17.6	1.1	49	6	191064	191064 Human putat
C 386	17.8	1.1	50	6	A14178	A14178 vektorrelte	459	17.6	1.1	49	6	HUMNRCOP25	M26303 Mus musculi
C 387	17.8	1.1	50	6	A14198	AR032925 Sequence	460	17.6	1.1	49	6	MUSIGHV	69173 Sequence 91
C 388	17.8	1.1	50	6	AR032925	AR032925 Sequence	461	17.6	1.1	50	6	AR032912	AR032912 Sequence
C 389	17.8	1.1	50	6	AR209589	AR209589 Sequence	462	17.6	1.1	50	6	AR032979	AR032979 Sequence
C 390	17.8	1.1	50	6	AX157456	AX157456 Sequence	463	17.6	1.1	50	6	AR091514	AR091514 Sequence
C 391	17.8	1.1	50	6	129665	129665 Sequence 53	464	17.6	1.1	50	6	AR091514	AR091514 Sequence
C 392	17.8	1.1	50	6	191339	191339 Sequence 53	465	17.6	1.1	50	6	AR154394	AR154394 Sequence
C 393	17.8	1.1	50	9	AF057500	AF057500 Homo sapi	466	17.6	1.1	50	6	AR157999	AR157999 Sequence
C 394	17.8	1.1	50	9	AF057514	AF057514 Homo sapi	467	17.6	1.1	50	6	AR174322	AR174322 Sequence
C 395	17.8	1.1	50	9	AF176988S5	AF176988 Homo sapi	468	17.6	1.1	50	6	AR183306	AR183306 Sequence
C 396	17.8	1.1	50	9	HSXK1D4	X96920 H.sapiens H	469	17.6	1.1	50	6	AR209576	AR209576 Sequence
C 397	17.8	1.1	50	9	AX010556	AX010556 Sequence	470	17.6	1.1	50	6	AR209643	AR209643 Sequence
C 398	17.8	1.1	50	9	AX183895	AX183895 Sequence	471	17.6	1.1	50	6	AR210478	AR210478 Sequence
C 399	17.6	1.1	28	6	AX343761	AX343761 Sequence	472	17.6	1.1	50	6	AX080358	AX080358 Sequence
C 400	17.6	1.1	30	6	AX003697	BD002916 Gene comp	473	17.6	1.1	50	6	AX159414	AX159414 Sequence
C 401	17.6	1.1	31	6	BD002916	AR182071 Sequence	474	17.6	1.1	50	6	AX196605	AX196605 Sequence
C 402	17.6	1.1	32	6	AR182071	AR00833 Adapter (re	475	17.6	1.1	50	6	AX233378	AX233378 Sequence
C 403	17.6	1.1	34	6	A00833	AI0002 adapter mol	476	17.6	1.1	50	6	129652	129652 Sequence 52
C 404	17.6	1.1	34	6	A16002	AR003387 Sequence	477	17.6	1.1	50	6	129719	129719 Sequence 59
C 405	17.6	1.1	34	6	AR003387	121176 Sequence 22	478	17.6	1.1	50	6	191326	191326 Sequence 59
C 406	17.6	1.1	34	6	121176	174453 Sequence 22	479	17.6	1.1	50	6	191393	191393 Sequence 59
C 407	17.6	1.1	34	6	174453	A47503 Sequence 10	480	17.6	1.1	50	6	MMU41953	MMU41953 Sequence 1
C 408	17.6	1.1	36	6	A47503	AR123709 Sequence	481	17.4	1.1	26	6	AX014658	AX014658 Sequence
C 409	17.6	1.1	36	6	AR123709	AR206158 Sequence	482	17.4	1.1	26	6	AX014658	AX014658 Sequence
C 410	17.6	1.1	36	6	AR206158	134917 Sequence 3	483	17.4	1.1	26	6	E50994	E50994 Hedgheog pr
C 411	17.6	1.1	36	6	134917	A69174 Sequence 92	484	17.4	1.1	27	6	E04986	E04986 DNA sequenc
C 412	17.6	1.1	40	6	A69174	A65145 Sequence 1	485	17.4	1.1	27	6	AR199381	AR199381 Sequence
C 413	17.6	1.1	41	6	A65145	AR032631 Sequence	486	17.4	1.1	28	6	EL14027	EL14027 Probe. 7/19
C 414	17.6	1.1	41	6	AR032631	AR209295 Sequence	487	17.4	1.1	30	6	AX248134	AX248134 Sequence
C 415	17.6	1.1	41	6	AR209295	AX015113 Sequence	488	17.4	1.1	31	6	AX248140	AX248140 Sequence
C 416	17.6	1.1	41	6	AX015113	AX174849 Sequence	489	17.4	1.1	31	6	AX248597	AX248597 Sequence
C 417	17.6	1.1	41	6	AX174849	E02634 linker. 9/1	490	17.4	1.1	31	6	AX248880	AX248880 Sequence
C 418	17.6	1.1	41	6	E02634	129371 Sequence 24	491	17.4	1.1	31	6	AX249132	AX249132 Sequence
C 419	17.6	1.1	41	6	129371	191045 Sequence 24	492	17.4	1.1	31	6	AR049526	AR049526 Sequence
C 420	17.6	1.1	41	6	191045	AX068138 Sequence	493	17.4	1.1	35	6	AR065731	AR065731 Sequence
C 421	17.6	1.1	42	6	AX068138	M86506 M.musculus	494	17.4	1.1	35	6	AR171308	AR171308 Sequence
C 422	17.6	1.1	42	10	MUSMHB05	A69175 Sequence 93	495	17.4	1.1	35	6	AX080146	AX080146 Sequence
C 423	17.6	1.1	44	6	A69175	AR032451 Sequence	496	17.4	1.1	35	6	AX201766	AX201766 Sequence
C 424	17.6	1.1	44	6	AR032451	AR079003 Sequence	497	17.4	1.1	35	6	AR104430	AR104430 Sequence
C 425	17.6	1.1	44	6	AR079003	AR209115 Sequence	498	17.4	1.1	36	6	178169	178169 Sequence 87
C 426	17.6	1.1	44	6	AR209115	104406 Sequence 4	499	17.4	1.1	36	6	AX298019	AX298019 Sequence
C 427	17.6	1.1	44	6	104406	104435 Sequence 33	500	17.4	1.1	37	6	AR021293	AR021293 Sequence
C 428	17.6	1.1	44	6	104435	129191 Sequence 63	501	17.4	1.1	38	6	AR129336	AR129336 Sequence
C 429	17.6	1.1	44	6	129191	190865 Sequence 63	502	17.4	1.1	38	6	AR160091	AR160091 Sequence
C 430	17.6	1.1	44	6	190865		503	17.4	1.1	38	6		

C 504	17.4	1.1	39	6	AX350023	AX350023 Sequence	577	17.2	1.1	36	6	AR83219	AR83219 Sequence 39
C 505	17.4	1.1	41	6	A13533	A13533 Oligonucleo	578	17.2	1.1	36	6	AR182945	AR182945 Sequence
C 506	17.4	1.1	41	6	A13534	A13534 Oligonucleo	579	17.2	1.1	36	6	AR108958	AR108958 Sequence
C 507	17.4	1.1	41	6	AX006150	AX006150 Sequence	580	17.2	1.1	39	6	AX283647	AX283647 Sequence
C 508	17.4	1.1	41	6	AX327045	AX327045 Sequence	581	17.2	1.1	39	6	AX283673	AX283673 Sequence
C 509	17.4	1.1	41	6	AX327070	AX327070 Sequence	582	17.2	1.1	39	10	S86273	S86273 TCR V beta
C 510	17.4	1.1	42	6	AX166901	AX166901 Sequence	583	17.2	1.1	40	6	A19014	A19014 Oligonucleo
C 511	17.4	1.1	42	6	E26049	E26049 Peptide Itra	584	17.2	1.1	40	6	I12505	I12505 Sequence 26
C 512	17.4	1.1	42	6	I95011	I95011 Sequence 28	585	17.2	1.1	41	6	A38184	A38184 Sequence 28
C 513	17.4	1.1	43	6	AX483436	AX483436 Sequence	586	17.2	1.1	41	6	A38186	A38186 Sequence 48
C 514	17.4	1.1	43	6	I00832	I00832 Sequence 3	587	17.2	1.1	41	6	A38204	A38204 Sequence 48
C 515	17.4	1.1	43	6	I00841	I00841 Sequence 4	588	17.2	1.1	42	6	AR016437	AR016437 Sequence
C 516	17.4	1.1	43	6	I06027	I06027 Sequence 1	589	17.2	1.1	42	6	AR058948	AR058948 Sequence
C 517	17.4	1.1	44	6	AR032540	AR032540 Sequence	590	17.2	1.1	42	6	AR097752	AR097752 Sequence
C 518	17.4	1.1	44	6	AR0209204	AR0209204 Sequence	591	17.2	1.1	42	6	AR105222	AR105222 Sequence
C 519	17.4	1.1	44	6	AX112010	AX112010 Sequence	592	17.2	1.1	42	6	AR119143	AR119143 Sequence
C 520	17.4	1.1	44	6	I29280	I29280 Sequence 15	593	17.2	1.1	42	6	AR123514	AR123514 Sequence
C 521	17.4	1.1	44	6	I90954	I90954 Sequence 15	594	17.2	1.1	42	6	AR18167	AR18167 Sequence
C 522	17.4	1.1	44	6	HUMTCVD1BL	HUMTCVD1BL	595	17.2	1.1	42	6	AR176728	AR176728 Sequence
C 523	17.4	1.1	44	9	HUMTCVDJ29	HUMTCVDJ29	596	17.2	1.1	42	6	AR198299	AR198299 Sequence
C 524	17.4	1.1	45	6	A05111	A05111 Homo sapien	597	17.2	1.1	44	6	AX193989	AX193989 Sequence
C 525	17.4	1.1	45	6	AR032587	AR032587 Sequence	598	17.2	1.1	44	6	E11302	E11302 PCR primer
C 526	17.4	1.1	45	6	AR168032	AR168032 Sequence	599	17.2	1.1	44	6	E23267	E23267 Antl-HBS mo
C 527	17.4	1.1	45	6	AR204803	AR204803 Sequence	600	17.2	1.1	45	6	I82392	I82392 Sequence 28
C 528	17.4	1.1	45	6	AR209251	AR209251 Sequence	601	17.2	1.1	45	6	AR145517	AR145517 Sequence
C 529	17.4	1.1	45	6	I29327	I29327 Sequence 19	602	17.2	1.1	45	6	AX027553	AX027553 Sequence
C 530	17.4	1.1	46	6	I91001	I91001 Sequence 70	603	17.2	1.1	45	6	AX027553	AX027553 Sequence
C 531	17.4	1.1	46	6	I27049	I27049 Sequence 11	604	17.2	1.1	45	6	AX027553	AX027553 Sequence
C 532	17.4	1.1	47	6	AR032401	AR032401 Sequence	605	17.2	1.1	46	6	AX027553	AX027553 Sequence
C 533	17.4	1.1	47	6	AR209065	AR209065 Sequence	606	17.2	1.1	46	6	AX027553	AX027553 Sequence
C 534	17.4	1.1	47	6	AX004830	AX004830 Sequence	607	17.2	1.1	46	6	AX027553	AX027553 Sequence
C 535	17.4	1.1	47	6	AX004830	AX004830 Sequence	608	17.2	1.1	46	6	AX027553	AX027553 Sequence
C 536	17.4	1.1	47	6	AX080981	AX080981 Sequence	609	17.2	1.1	46	6	AX027553	AX027553 Sequence
C 537	17.4	1.1	47	6	AX040877	AX040877 Sequence	610	17.2	1.1	46	6	AX027553	AX027553 Sequence
C 538	17.4	1.1	47	6	I29141	I29141 Sequence 13	611	17.2	1.1	46	6	AX027553	AX027553 Sequence
C 539	17.4	1.1	47	6	I90815	I90815 Sequence 13	612	17.2	1.1	47	6	AX004829	AX004829 Sequence
C 540	17.4	1.1	48	6	A47501	A47501 Sequence 8	613	17.2	1.1	47	6	AX010672	AX010672 Sequence
C 541	17.4	1.1	48	6	A62956	A62956 Sequence 19	614	17.2	1.1	47	6	AX128389	AX128389 Sequence
C 542	17.4	1.1	48	6	A97298	A97298 Sequence 15	615	17.2	1.1	47	6	AX254660	AX254660 Sequence
C 543	17.4	1.1	48	6	AX150273	AX150273 Sequence	616	17.2	1.1	47	6	E58964	E58964 Novel pepti
C 544	17.4	1.1	49	6	I95010	I95010 Sequence 27	617	17.2	1.1	48	6	A16034	A16034 Oligonucleo
C 545	17.4	1.1	50	6	A60808	A60808 Sequence 11	618	17.2	1.1	48	6	AR117273	AR117273 Sequence
C 546	17.4	1.1	50	6	AX156889	AX156889 Sequence	619	17.2	1.1	48	6	AR135812	AR135812 Sequence
C 547	17.4	1.1	50	6	AX160148	AX160148 Sequence	620	17.2	1.1	48	6	AR135812	AR135812 Sequence
C 548	17.4	1.1	50	6	AX160470	AX160470 Sequence	621	17.2	1.1	48	6	AR135814	AR135814 Sequence
C 549	17.4	1.1	50	6	AX160472	AX160472 Sequence	622	17.2	1.1	48	6	AR135814	AR135814 Sequence
C 550	17.4	1.1	50	6	AX161340	AX161340 Sequence	623	17.2	1.1	48	6	AR135816	AR135816 Sequence
C 551	17.4	1.1	50	6	AX161968	AX161968 Sequence	624	17.2	1.1	48	6	AR135816	AR135816 Sequence
C 552	17.4	1.1	50	6	AX190233	AX190233 Sequence	625	17.2	1.1	48	6	AX021173	AX021173 Sequence
C 553	17.4	1.1	50	6	AX199626	AX199626 Sequence	626	17.2	1.1	48	6	AX021173	AX021173 Sequence
C 554	17.4	1.1	50	6	AX202435	AX202435 Sequence	627	17.2	1.1	48	6	AX060432	AX060432 Sequence
C 555	17.4	1.1	50	6	AX453556	AX453556 Sequence	628	17.2	1.1	49	6	AX278759	AX278759 Sequence
C 556	17.4	1.1	50	6	I23716	I23716 Sequence 11	629	17.2	1.1	49	6	AX279926	AX279926 Sequence
C 557	17.4	1.1	50	6	I24075	I24075 Sequence 11	630	17.2	1.1	49	6	I20745	I20745 Sequence 10
C 558	17.4	1.1	50	6	I27200	I27200 Sequence 11	631	17.2	1.1	49	6	A45017	A45017 Sequence 4
C 559	17.4	1.1	50	10	MWU41938	MWU41938 Mus musculu	632	17.2	1.1	50	6	AR032500	AR032500 Sequence
C 560	17.2	1.1	24	6	AR028416	AR028416 Sequence	633	17.2	1.1	50	6	AR032500	AR032500 Sequence
C 561	17.2	1.1	24	6	AR130926	AR130926 Sequence	634	17.2	1.1	50	6	AR0209164	AR0209164 Sequence
C 562	17.2	1.1	24	6	AR161892	AR161892 Sequence	635	17.2	1.1	50	6	AR209383	AR209383 Sequence
C 563	17.2	1.1	30	6	AX104905	AX104905 Sequence	636	17.2	1.1	50	6	AX160730	AX160730 Sequence
C 564	17.2	1.1	30	6	AX104905	AX104905 Sequence	637	17.2	1.1	50	6	AX165889	AX165889 Sequence
C 565	17.2	1.1	30	6	E04679	E04679 Synthetic n	638	17.2	1.1	50	6	AX165889	AX165889 Sequence
C 566	17.2	1.1	30	6	E04682	E04682 Synthetic n	639	17.2	1.1	50	6	AX165889	AX165889 Sequence
C 567	17.2	1.1	30	6	E30036	E30036 Human BMP-4	640	17.2	1.1	50	6	AX199624	AX199624 Sequence
C 568	17.2	1.1	32	6	AX009737	AX009737 Sequence	641	17.2	1.1	50	6	AX202437	AX202437 Sequence
C 569	17.2	1.1	32	6	AX011221	AX011221 Sequence	642	17.2	1.1	50	6	AX351174	AX351174 Sequence
C 570	17.2	1.1	33	6	A14039	A14039 Nucleotide	643	17.2	1.1	50	6	AX351174	AX351174 Sequence
C 571	17.2	1.1	34	6	A14040	A14040 Nucleotide	644	17.2	1.1	50	6	I29240	I29240 Sequence 11
C 572	17.2	1.1	34	6	A13929	A13929 Synthetic P	645	17.2	1.1	50	6	I29459	I29459 Sequence 33
C 573	17.2	1.1	35	6	AR159970	AR159970 Sequence	646	17.2	1.1	50	6	I90914	I90914 Sequence 11
C 574	17.2	1.1	35	6	AX028956	AX028956 Sequence	647	17.2	1.1	50	6	I91133	I91133 Sequence 33
C 575	17.2	1.1	35	6	E30658	E30658 Antibody an	648	17.2	1.1	50	6	AF220249	AF220249 Homo sapi
C 576	17.2	1.1	35	6	E31247	E31247 Device for	649	17.2	1.1	50	9	HSAD4654	HSAD4654 Homo sapi

C 650	17.2	1.1	50	9	HSTFE31A4	X84968 H.sapiens t	723	17	1.1	46	6	AR032563	AR032563 Sequence
C 651	17.2	1.1	50	9	HDMTCVJ70	L39537 Homo sapien	724	17	1.1	46	6	AR035242	AR035242 Sequence
C 652	17.2	1.1	50	9	S72292554	S72292 GPIa-plate	725	17	1.1	46	6	AR209227	AR209227 Sequence
C 653	17	1.1	25	6	AR201287	AR201287 Sequence	726	17	1.1	46	6	I13190	I13190 Sequence
C 654	17	1.1	26	6	E16680	E16680 primer. 7/1	727	17	1.1	46	6	I29303	I29303 Sequence
C 655	17	1.1	29	6	I55135	I55135 Sequence 12	728	17	1.1	46	6	I90977	I90977 Sequence
C 656	17	1.1	30	6	AX328457	AX328457 Sequence	729	17	1.1	47	6	AX136052	AX136052 Sequence
C 657	17	1.1	32	6	A32995	A32995 Synthetic P	730	17	1.1	47	6	AX195019	AX195019 Sequence
C 658	17	1.1	32	6	A32998	A32998 Synthetic P	731	17	1.1	47	6	AX195025	AX195025 Sequence
C 659	17	1.1	32	6	AX281125	AX281125 Sequence	732	17	1.1	47	6	AX278085	AX278085 Sequence
C 660	17	1.1	32	6	AX357174	AX357174 Sequence	733	17	1.1	47	6	E13626	E13626 Sequence
C 661	17	1.1	33	6	A14926	A14926 Oligonucleo	734	17	1.1	48	6	A38191	A38191 Sequence
C 662	17	1.1	33	6	AR093707	AR093707 Sequence	735	17	1.1	48	6	AR127012	AR127012 Sequence
C 663	17	1.1	33	6	AR106717	AR106717 Sequence	736	17	1.1	48	6	E13604	E13604 Sequence
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C 665	17	1.1	33	6	AR154143	AR154143 Sequence	738	17	1.1	48	6	A38192	A38192 Sequence
C 666	17	1.1	33	6	AR202528	AR202528 Sequence	739	17	1.1	49	6	AX207722	AX207722 Sequence
C 667	17	1.1	33	6	AX172816	AX172816 Sequence	740	17	1.1	49	6	AX279596	AX279596 Sequence
C 668	17	1.1	35	6	A25417	A25417 Oligonucleo	741	17	1.1	49	6	AX279607	AX279607 Sequence
C 669	17	1.1	35	6	AR096977	AR096977 Sequence	742	17	1.1	49	6	AX279718	AX279718 Sequence
C 670	17	1.1	35	6	AR145497	AR145497 Sequence	743	17	1.1	49	6	AX279764	AX279764 Sequence
C 671	17	1.1	36	6	AX398700	AX398700 Sequence	744	17	1.1	49	6	AX391613	AX391613 Sequence
C 672	17	1.1	37	6	AR093706	AR093706 Sequence	745	17	1.1	49	6	I21262	I21262 Sequence
C 673	17	1.1	37	6	AR094473	AR094473 Sequence	746	17	1.1	49	6	AR032752	AR032752 Sequence
C 674	17	1.1	37	6	AR139630	AR139630 Sequence	747	17	1.1	50	6	AR032885	AR032885 Sequence
C 675	17	1.1	37	6	AR154142	AR154142 Sequence	748	17	1.1	50	6	AR182233	AR182233 Sequence
C 676	17	1.1	38	6	AR016401	AR016401 Sequence	749	17	1.1	50	6	AR209416	AR209416 Sequence
C 677	17	1.1	38	6	AR019259	AR019259 Sequence	750	17	1.1	50	6	AR209549	AR209549 Sequence
C 678	17	1.1	38	6	AR058958	AR058958 Sequence	751	17	1.1	50	6	AX014758	AX014758 Sequence
C 679	17	1.1	38	6	AR105232	AR105232 Sequence	752	17	1.1	50	6	AX162314	AX162314 Sequence
C 680	17	1.1	38	6	AR119153	AR119153 Sequence	753	17	1.1	50	6	AX165809	AX165809 Sequence
C 681	17	1.1	38	6	AR123524	AR123524 Sequence	754	17	1.1	50	6	AX199450	AX199450 Sequence
C 682	17	1.1	38	6	AR138177	AR138177 Sequence	755	17	1.1	50	6	AX279744	AX279744 Sequence
C 683	17	1.1	38	6	AR176738	AR176738 Sequence	756	17	1.1	50	6	AX430850	AX430850 Sequence
C 684	17	1.1	38	6	AR198309	AR198309 Sequence	757	17	1.1	50	6	I21272	I21272 Sequence
C 685	17	1.1	38	6	AX219129	AX219129 Sequence	758	17	1.1	50	6	I28492	I28492 Sequence
C 686	17	1.1	38	6	AX273417	AX273417 Sequence	759	17	1.1	50	6	I29625	I29625 Sequence
C 687	17	1.1	38	6	AX398684	AX398684 Sequence	760	17	1.1	50	6	E04677	E04677 Synthetic n
C 688	17	1.1	38	6	AX398696	AX398696 Sequence	761	17	1.1	50	6	E04677	E04677 Synthetic n
C 689	17	1.1	38	6	AX470002	AX470002 Sequence	762	17	1.1	50	6	E04677	E04677 Synthetic n
C 690	17	1.1	39	6	AX108712	AX108712 Sequence	763	17	1.1	50	6	E04677	E04677 Synthetic n
C 691	17	1.1	39	6	AX250381	AX250381 Sequence	764	17	1.1	29	6	A52310	A52310 Sequence
C 692	17	1.1	39	6	AX306732	AX306732 Sequence	765	17	1.1	29	6	AR050002	AR050002 Sequence
C 693	17	1.1	39	6	AX351191	AX351191 Sequence	766	17	1.1	29	6	AR100031	AR100031 Sequence
C 694	17	1.1	39	6	AX351194	AX351194 Sequence	767	17	1.1	30	6	AR081910	AR081910 Sequence
C 695	17	1.1	40	6	AR053704	AR053704 Sequence	768	17	1.1	30	6	AR162423	AR162423 Sequence
C 696	17	1.1	40	6	AR201283	AR201283 Sequence	769	17	1.1	30	6	AR202765	AR202765 Sequence
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ALIGNMENTS

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DEFINITION Sequence 44 from Patent W00134654.
ACCESSION AX146582
VERSION AX146582.1 GI:14284975
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens

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REFERENCE
AUTHORS Strauch, K.
TITLE Hedgehog fusion proteins and uses
JOURNAL Patent: WO 0134654-A 44 17-MAY-2001;
BIOGEN, INC. (US)
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RESULT 2
LOCUS AX146613/c AX146613 50 bp DNA
DEFINITION Sequence 75 from Patent W00134654.
ACCESSION AX146613
VERSION AX146613.1 GI:14285006
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens

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REFERENCE
AUTHORS Strauch, K.
TITLE Hedgehog fusion proteins and uses
JOURNAL Patent: WO 0134654-A 75 17-MAY-2001;
BIOGEN, INC. (US)
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DEFINITION Sequence 76 from Patent W00134654.
ACCESSION AX146614
VERSION AX146614.1 GI:14285007
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
AUTHORS Strauch, K.
TITLE Hedgehog fusion proteins and uses
JOURNAL Patent: WO 0134654-A 76 17-MAY-2001;
BIOGEN, INC. (US)
FEATURES
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LOCUS
DEFINITION Sequence 78 from Patent WO0134654.
ACCESSION AXI46616
VERSION AXI46616.1 GI:14285009
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
AUTHORS 1 (bases 1 to 50)
TITLE Strauch,K.
JOURNAL Hedgehog fusion proteins and uses
Patent: WO 0134654-A 78 17-MAY-2001;

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Best Local Similarity 94.0%; Pred. No. 2.5e+04;
Matches 47; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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RESULT 5
AXI46608 47 bp DNA linear PAT 31-MAY-2001
LOCUS
DEFINITION Sequence 70 from Patent WO0134654.
ACCESSION AXI46608
VERSION AXI46608.1 GI:14285001
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
AUTHORS 1 (bases 1 to 47)
TITLE Strauch,K.
JOURNAL Hedgehog fusion proteins and uses
Patent: WO 0134654-A 70 17-MAY-2001;

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Best Local Similarity 95.7%; Pred. No. 3.8e+04;
Matches 45; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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RESULT 6
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LOCUS
DEFINITION Sequence 71 from Patent WO0134654.
ACCESSION AXI46609
VERSION AXI46609.1 GI:14285002
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
AUTHORS 1 (bases 1 to 47)
TITLE Strauch,K.
JOURNAL Hedgehog fusion proteins and uses
Patent: WO 0134654-A 71 17-MAY-2001;

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ORIGIN

Query Match 2.8%; Score 43.8; DB 6; Length 47;
Best Local Similarity 95.7%; Pred. No. 3.8e+04;
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RESULT 7
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LOCUS
DEFINITION Sequence 74 from Patent WO0134654.
ACCESSION AXI46612
VERSION AXI46612.1 GI:14285005
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
AUTHORS 1 (bases 1 to 45)
TITLE Strauch,K.
JOURNAL Hedgehog fusion proteins and uses
Patent: WO 0134654-A 74 17-MAY-2001;

FEATURES
source Location/Qualifiers
1..45
/organism="Homo sapiens"
/db_xref="taxon:9606"

BASE COUNT 12 a 14 c 10 g 9 t
ORIGIN

Query Match 2.8%; Score 43.4; DB 6; Length 45;
Best Local Similarity 97.8%; Pred. No. 4.3e+04;
Matches 44; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 272 CCTTACCTTACAGCAGTTATCCCAATGTGGCGGAGAGACC 316
|||||
Db 1 CCTTACCTTACAGCAGTTATCCCAATGTGGCGGAGAGACC 45

RESULT 8
AXI46615/c 50 bp DNA linear PAT 31-MAY-2001
LOCUS
DEFINITION Sequence 77 from Patent WO0134654.

1351 CAGCGCGCGCGGGAGCCGCGCGCGCGCGCG 1383
1 CCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 33

RESULT 17
ARI93385 LOCUS ARI93385 50 bp DNA linear PAT 20-APR-2002
DEFINITION Sequence 6 from patent US 6355434.
ACCESSION ARI93385
VERSION ARI93385.1 GI:20249459
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 50)
AUTHORS Drazan,J.M., In,K.-H., Asano,K., Beier,D. and Grobholz,J.
TITLE 5-lipoxygenase gene polymorphisms and their use in classifying patients
JOURNAL Patent: US 6355434-A 6 12-MAR-2002;
FEATURES Location/Qualifiers
SOURCE 1..50
BASE COUNT 6 a 10 c 32 g 2 t
ORIGIN

Query Match 1.5%; Score 24; DB 6; Length 50;
Best Local Similarity 76.9%; Pred. No. 7.4e+06;
Matches 30; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 1348 GGACAGCGCGCGGACCGCGGCGCGCGCGCGCGCAG 1386
DB 6 GTACTGCGGGGCGGCGCGCGCGCGCGCGCGCGCGCAG 44

RESULT 18
AR063105 LOCUS AR063105 24 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 43 from patent US 5844079.
ACCESSION AR063105
VERSION AR063105.1 GI:5990796
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 24)
AUTHORS Ingham,P.W., McMahon,A.P. and Tabin,C.J.
TITLE Vertebrate embryonic pattern-inducing proteins, and uses related thereto
JOURNAL Patent: US 5844079-A 43 01-DEC-1998;
FEATURES Location/Qualifiers
SOURCE 1..24
BASE COUNT 6 a 5 c 11 g 2 t
ORIGIN

Query Match 1.5%; Score 24; DB 6; Length 24;
Best Local Similarity 100.0%; Pred. No. 1.1e+07;
Matches 24; Conservative 0; Mismatches 0; Indels 0;

QY 524 ACCGAGGCTGGAGCAGATGCG 547
DB 1 ACCGAGGCTGGAGCAGATGCG 24

RESULT 19
ARI22632 LOCUS ARI22632 24 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 43 from patent US 6165747.
ACCESSION ARI22632
VERSION ARI22632.1 GI:14106949
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 24)

AUTHORS Ingham,P.W., McMahon,A.P., Tabin,C.J., Bumcrot,D.A. and Marti-Gorostiza,E.
TITLE Nucleic acids encoding hedgehog proteins
JOURNAL Patent: US 6165747-A 43 26-DEC-2000;
FEATURES Location/Qualifiers
SOURCE 1..24
BASE COUNT 6 a 5 c 11 g 2 t
ORIGIN

Query Match 1.5%; Score 24; DB 6; Length 24;
Best Local Similarity 100.0%; Pred. No. 1.1e+07;
Matches 24; Conservative 0; Mismatches 0; Indels 0;

QY 524 ACCGAGGCTGGAGCAGATGCG 547
DB 1 ACCGAGGCTGGAGCAGATGCG 24

RESULT 20
ARI64260 LOCUS ARI64260 24 bp DNA linear PAT 17-OCT-2001
DEFINITION Sequence 43 from patent US 6271363.
ACCESSION ARI64260
VERSION ARI64260.1 GI:16235331
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 24)
AUTHORS Ingham,P.W., McMahon,A.P. and Tabin,C.J.
TITLE Nucleic acids encoding hedgehog proteins
JOURNAL Patent: US 6271363-A 43 07-AUG-2001;
FEATURES Location/Qualifiers
SOURCE 1..24
BASE COUNT 6 a 5 c 11 g 2 t
ORIGIN

Query Match 1.5%; Score 24; DB 6; Length 24;
Best Local Similarity 100.0%; Pred. No. 1.1e+07;
Matches 24; Conservative 0; Mismatches 0; Indels 0;

QY 524 ACCGAGGCTGGAGCAGATGCG 547
DB 1 ACCGAGGCTGGAGCAGATGCG 24

RESULT 21
AR208932 LOCUS AR208932 24 bp DNA linear PAT 20-JUN-2002
DEFINITION Sequence 43 from patent US 6384192.
ACCESSION AR208932
VERSION AR208932.1 GI:21510216
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 24)
AUTHORS Ingham,P.W., McMahon,A.P. and Tabin,C.J.
TITLE Vertebrate embryonic pattern-inducing proteins
JOURNAL Patent: US 6384192-A 43 07-MAY-2002;
FEATURES Location/Qualifiers
SOURCE 1..24
BASE COUNT 6 a 5 c 11 g 2 t
ORIGIN

Query Match 1.5%; Score 24; DB 6; Length 24;
Best Local Similarity 100.0%; Pred. No. 1.1e+07;
Matches 24; Conservative 0; Mismatches 0; Indels 0;

QY 524 ACCGAGGCTGGAGCAGATGCG 547

Db 1 ACCGAGGCTGGACGAGATGCG 24

RESULT 22

LOCUS 120760 45 bp DNA Linear PAT 07-OCT-1996

DEFINITION Sequence 13 from patent US 5516637.

ACCESSION 120760

VERSION 120760.1 GI:1601115

KEYWORDS

SOURCE Unknown.

ORGANISM Unknown.

REFERENCE 1 (bases 1 to 45)

AUTHORS Huang, G.P., Rhode, P.R., Stinson, J.R. and Wong, H.C.

TITLE Method involving display of protein binding pairs on the surface of bacterial pill and bacteriophage

JOURNAL Patent: US 5516637-A 13 14-MAY-1996;

FEATURES Location/Qualifiers

source 1..45

BASE COUNT 2 a 9 c 25 g 9 t

ORIGIN

Query Match 1.5%; Score 24; DB 6; Length 45;

Best Local Similarity 75.0%; Pred. No. 8.9e+06;

Matches 30; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

OY 1341 GCGCGGGGACCGCGCGCGGACCGCGGGCGCGCG 1380

Db 2 GTGGCGGTGCGACGCGGCTGTTCGCGAGCGCGCG 41

RESULT 23

LOCUS 184401 30 bp DNA Linear PAT 04-APR-1998

DEFINITION Sequence 2 from patent US 5695933.

ACCESSION 184401

VERSION 184401.1 GI:3021921

KEYWORDS

SOURCE Unknown.

ORGANISM Unknown.

REFERENCE 1 (bases 1 to 30)

AUTHORS Schalling, M., Hudson, T.J. and Housman, D.E.

TITLE Direct detection of expanded nucleotide repeats in the human genome

JOURNAL Patent: US 5695933-A 2 09-DEC-1997;

FEATURES Location/Qualifiers

source 1..30

BASE COUNT 0 a 20 c 10 g 0 t

ORIGIN

Query Match 1.5%; Score 23.6; DB 6; Length 30;

Best Local Similarity 86.7%; Pred. No. 1.1e+07;

Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 1354 CCGCGCGGGGACCGCGGGGCGCGCGCG 1383

Db 30 CCGCGCGGGGCGCGCGCGCGCGCGCGCG 1

RESULT 24

LOCUS A01419 31 bp DNA Linear PAT 28-APR-1993

DEFINITION Malaria parasitic epitope (T-cell).

ACCESSION A01419

VERSION A01419.1 GI:344347

KEYWORDS

SOURCE synthetic construct.

ORGANISM synthetic construct

artificial sequences.

FEATURES Location/Qualifiers

source 1..31

BASE COUNT 0 a 20 c 10 g 0 t 1 others

ORIGIN

Query Match 1.5%; Score 23.6; DB 6; Length 31;

Best Local Similarity 86.7%; Pred. No. 1.1e+07;

Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 1355 GCGCGGGGACCGCGGGGCGCGCGCG 1384

Db 30 GCGCGGGGCGCGCGCGCGCGCGCGCGCG 1

RESULT 25

LOCUS A62993 32 bp DNA Linear PAT 12-MAR-1998

DEFINITION Sequence 5 from Patent WO9720068.

ACCESSION A62993

VERSION A62993.1 GI:3716865

KEYWORDS

SOURCE unidentified.

ORGANISM unidentified.

REFERENCE 1 (bases 1 to 32)

AUTHORS Oerum, H. and Seeger, C.

TITLE METHOD FOR GENERATING MULTIPLE DOUBLE STRANDED NUCLEIC ACIDS

JOURNAL Patent: WO 9720068-A 5 05-JUN-1997;

FEATURES Location/Qualifiers

source 1..32

BASE COUNT 0 a 30 c 2 g 0 t

ORIGIN

Query Match 1.4%; Score 22.4; DB 6; Length 32;

Best Local Similarity 81.2%; Pred. No. 1.5e+07;

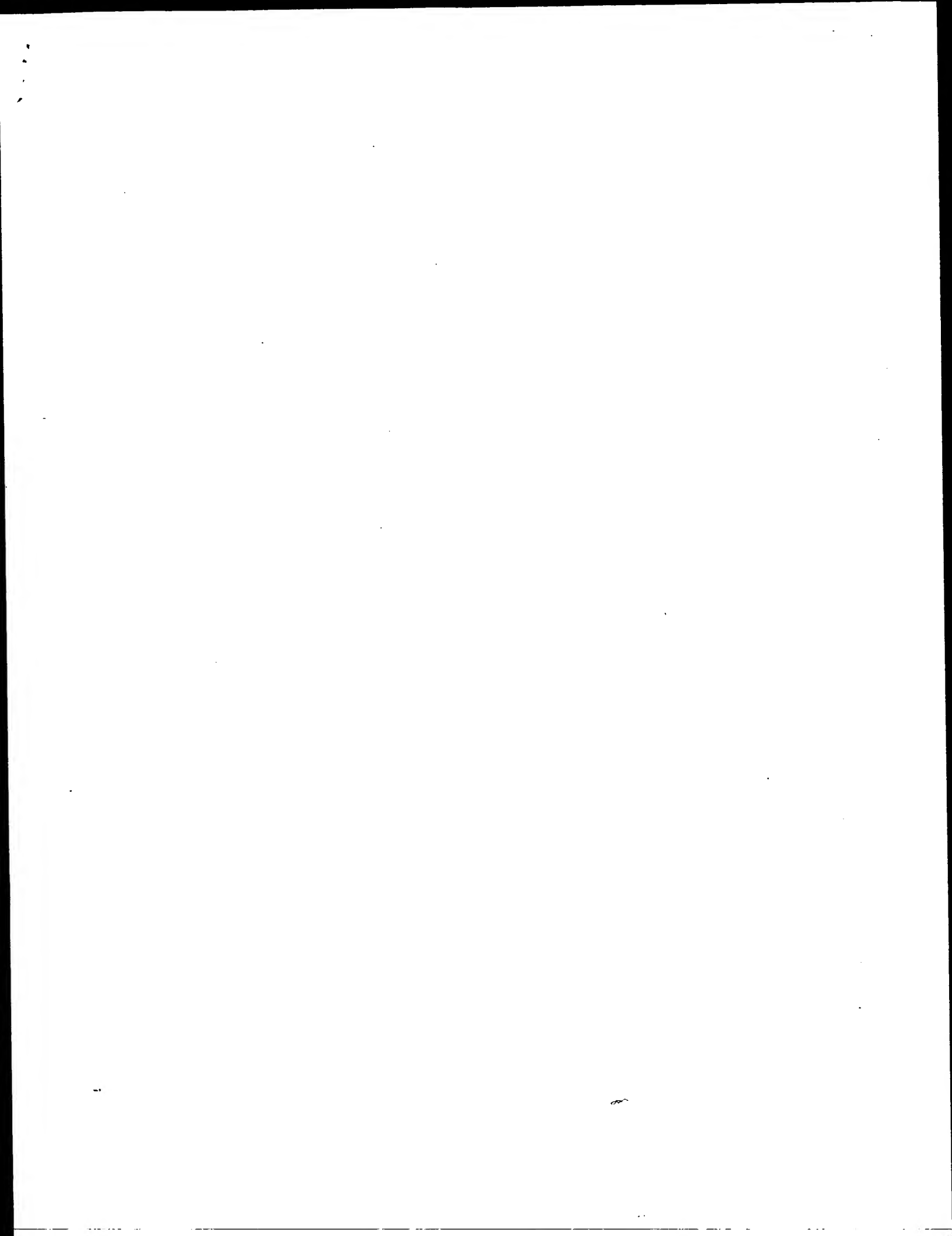
Matches 26; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

OY 1543 CCGCGGGGCGGGGAGGGGCGCGGAGGGG 1574

Db 32 CCGGGGGGCGGGGCGGGGCGGGGCGGGG 1

Search completed: March 13, 2003, 23:14:50

Job time : 4408 secs



c 83	21	1.3	50	22	AAH89771	Human coding sequ	c 156	19.8	1.3	40	13	AAO25025	Anti-sense oligonu
c 84	21	1.3	50	24	ABK82865	DNA binding molecu	c 157	19.8	1.3	47	21	AAZ67690	Human map-related
c 85	20.8	1.3	40	24	ABK94443	Human BRCA1/hMLH1	c 158	19.8	1.3	47	21	AAZ68205	Human map-related
c 86	20.8	1.3	43	20	AAV80298	DNA encoding pepit	c 159	19.8	1.3	47	23	AAH88364	CNS disorder-relat
c 87	20.8	1.3	46	19	AAV10422	CAT gene 5'-end an	c 160	19.8	1.3	48	24	ABQ75860	Plasmodium falciparum
c 88	20.8	1.3	46	19	AAV10422	CAT gene 5'-end an	c 161	19.8	1.3	50	22	AAZ28998	Human SNP oligonuc
c 89	20.8	1.3	49	23	ABK10869	Tail adaptor oligo	c 162	19.8	1.3	50	22	AAZ19759	Human SNP oligonuc
c 90	20.8	1.3	50	17	AAZ28823	PCR primer for HTR	c 163	19.6	1.2	45	21	AAA47006	Human SNP oligonuc
c 91	20.8	1.3	50	17	AAZ31522	Human SNP oligonuc	c 164	19.6	1.2	46	21	AAZ68430	Human SNP oligonuc
c 92	20.8	1.3	50	22	AAH89754	Human coding sequ	c 165	19.6	1.2	47	15	AAZ68436	Human SNP oligonuc
c 93	20.6	1.3	38	22	AAH46872	B. napus turgor ge	c 166	19.6	1.2	48	22	AAZ13086	Oligo DEVD-2 for c
c 94	20.6	1.3	45	21	AAZ60682	Triplet repeat blo	c 167	19.6	1.2	48	24	AAZ79386	DNA encoding IEN-C
c 95	20.6	1.3	45	21	AAZ60682	Synthetic linker D	c 168	19.6	1.2	50	18	AAZ79382	Multiplex short-PC
c 96	20.6	1.3	48	17	AAZ06969	DNA encoding GM-CS	c 169	19.4	1.2	36	20	AAZ79322	Human lymphocytic
c 97	20.6	1.3	49	18	AAZ80501	Hepaticoma AS-30D Ty	c 170	19.4	1.2	37	23	AAH77140	DNA adapter 2 olig
c 98	20.6	1.3	50	22	AAZ82864	Human AS-30D Ty	c 171	19.4	1.2	39	12	AAZ77140	Probe derived from
c 99	20.6	1.3	50	22	AAZ82864	Human AS-30D Ty	c 172	19.4	1.2	39	12	AAZ77140	Human sonic hedgeh
c 100	20.4	1.3	30	24	AAZ82864	Human AS-30D Ty	c 173	19.4	1.2	39	12	AAZ77140	Gamma heavy chain
c 101	20.4	1.3	30	24	AAZ82864	Human AS-30D Ty	c 174	19.4	1.2	43	18	AAZ78827	Primer O-529 used
c 102	20.4	1.3	30	24	AAZ82864	Human AS-30D Ty	c 175	19.4	1.2	43	18	AAZ78827	Oligonucleotide us
c 103	20.4	1.3	31	24	AAZ82864	Human AS-30D Ty	c 176	19.4	1.2	43	18	AAZ78827	(Ser4Gly) 2 linker
c 104	20.4	1.3	34	13	AAZ82864	Human AS-30D Ty	c 177	19.4	1.2	43	18	AAZ78827	DNA encoding (Ser4
c 105	20.4	1.3	35	13	AAZ82864	Human AS-30D Ty	c 178	19.4	1.2	43	18	AAZ78827	Thermus terminator
c 106	20.4	1.3	35	13	AAZ82864	Human AS-30D Ty	c 179	19.4	1.2	43	18	AAZ78827	DNA encoding GM-CS
c 107	20.4	1.3	35	13	AAZ82864	Human AS-30D Ty	c 180	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 108	20.4	1.3	40	16	AAZ82864	Human AS-30D Ty	c 181	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 109	20.4	1.3	41	16	AAZ82864	Human AS-30D Ty	c 182	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 110	20.4	1.3	41	16	AAZ82864	Human AS-30D Ty	c 183	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 111	20.4	1.3	49	16	AAZ82864	Human AS-30D Ty	c 184	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 112	20.4	1.3	49	16	AAZ82864	Human AS-30D Ty	c 185	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 113	20.4	1.3	50	21	AAZ82864	Human AS-30D Ty	c 186	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 114	20.4	1.3	50	21	AAZ82864	Human AS-30D Ty	c 187	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 115	20.4	1.3	50	21	AAZ82864	Human AS-30D Ty	c 188	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 116	20.4	1.3	50	21	AAZ82864	Human AS-30D Ty	c 189	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 117	20.4	1.3	50	21	AAZ82864	Human AS-30D Ty	c 190	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 118	20.2	1.3	40	14	AAZ82864	Human AS-30D Ty	c 191	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 119	20.2	1.3	42	14	AAZ82864	Human AS-30D Ty	c 192	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 120	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 193	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 121	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 194	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 122	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 195	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 123	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 196	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 124	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 197	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 125	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 198	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 126	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 199	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 127	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 200	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 128	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 201	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 129	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 202	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 130	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 203	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 131	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 204	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 132	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 205	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 133	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 206	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 134	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 207	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 135	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 208	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 136	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 209	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 137	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 210	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 138	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 211	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 139	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 212	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 140	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 213	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 141	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 214	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 142	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 215	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 143	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 216	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 144	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 217	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 145	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 218	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 146	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 219	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 147	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 220	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 148	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 221	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 149	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 222	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 150	20.2	1.3	46	15	AAZ82864	Human AS-30D Ty	c 223	19.4	1.2	43	18	AAZ78827	Human SNP oligonuc
c 151	19.8	1.3	38	12	AAO13203	AAO13203	c 224	19.8	1.3	38	12	AAO13203	AAO13203
c 152	19.8	1.3	38	12	AAO13203	AAO13203	c 225	19.8	1.3	38	12	AAO13203	AAO13203
c 153	19.8	1.3	38	12	AAO13203	AAO13203	c 226	19.8	1.3	38	12	AAO13203	AAO13203
c 154	19.8	1.3	38	12	AAO13203	AAO13203	c 227	19.8	1.3	38	12	AAO13203	AAO13203
c 155	19.8	1.3	38	12	AAO13203	AAO13203	c 228	19.8	1.3	38	12	AAO13203	AAO13203

C 229	19	1.2	30	20	AAK55311	Soluble sc-TCR fus
C 230	19	1.2	30	20	AAK55313	Soluble sc-TCR fus
C 231	19	1.2	30	21	AAK28860	Oligo linker for c
C 232	19	1.2	30	22	AAD09041	Human oligonucleot
C 233	19	1.2	30	22	AAK99701	Human sonic hedgeh
C 234	19	1.2	35	23	ABA95454	Thermus thermophil
C 235	19	1.2	35	20	AAZ28440	Primer 345, for ut
C 236	19	1.2	36	24	AAD39387	Human pDE7A1 3' ut
C 237	19	1.2	38	17	AAV13180	Human insulin codi
C 238	19	1.2	39	12	AAE25074	Nucleotide sequenc
C 239	19	1.2	39	22	AAE91516	Promoter pGEMT-tpb
C 240	19	1.2	39	24	ABK37899	Promoter replicase
C 241	19	1.2	40	13	AAO25017	Sense oligonucleot
C 242	19	1.2	41	16	AAO94545	Human antibody ONS
C 243	19	1.2	41	17	AAT39859	Chimeric human/mu
C 244	19	1.2	42	22	ABL34013	Primer for 5' end
C 245	19	1.2	43	22	AAO37342	Plasmid pVAC-1stc
C 246	19	1.2	44	17	AAV33024	Antibody H chain V
C 247	19	1.2	44	17	AAV68379	Clone #5 fragment
C 248	19	1.2	44	20	AAW77428	PCR primer VHIAF5
C 249	19	1.2	44	21	AAC69956	B. stearothermophil
C 250	19	1.2	45	16	AAT04813	T-cell receptor V-
C 251	19	1.2	45	15	AAV54225	Soluble sc-TCR fus
C 252	19	1.2	45	20	AAK5307	Mutant preprotrich
C 253	19	1.2	45	22	AAI79904	Diapody MAK195 pri
C 254	19	1.2	46	15	AAO68290	Primer 27. Synthe
C 255	19	1.2	47	20	AAK56654	Human oligo 14 to
C 256	19	1.2	48	22	AAD06907	Multiplex short-PC
C 257	19	1.2	50	18	AAW73770	Human SNP oligonuc
C 258	19	1.2	50	22	AAL28935	Human SNP oligonuc
C 259	19	1.2	50	22	AAL30665	Human SNP oligonuc
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C 261	19	1.2	50	22	AAL31601	Human SNP oligonuc
C 262	19	1.2	50	22	AAL33627	Human SNP oligonuc
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C 264	18.8	1.2	31	22	AAT30620	PCR primer for cDN
C 265	18.8	1.2	32	22	AAW24860	Sequence binding t
C 266	18.8	1.2	34	11	AAO05011	NGFRSpar, targete
C 267	18.8	1.2	34	14	AAO36325	NGFRSanti, targete
C 268	18.8	1.2	34	14	AAO36326	PCR primer HSU4598
C 269	18.8	1.2	38	19	AAV31478	Crossover junction
C 270	18.8	1.2	38	21	AAZ37860	Nucleotide sequenc
C 271	18.8	1.2	39	22	AAE25074	Pi3 response elem
C 272	18.8	1.2	39	22	AAE74379	HIV anti-viral oli
C 273	18.8	1.2	40	20	AAV64755	Polynucleotide seq
C 274	18.8	1.2	40	21	AAE96151	Nucleotide sequenc
C 275	18.8	1.2	40	22	AAH24767	DNA adapter 1 olij
C 276	18.8	1.2	40	23	AAH77135	Vector pVCI const
C 277	18.8	1.2	41	15	AAO62419	Probe #2 relating
C 278	18.8	1.2	41	24	ABLA1574	Foldback triplex f
C 279	18.8	1.2	42	18	AAW47461	Human growth hormo
C 280	18.8	1.2	42	21	AAO05761	HLA adapter oligon
C 281	18.8	1.2	42	23	AAW7126	supf gene triplex
C 282	18.8	1.2	43	16	AAO81075	Triplex-forming ol
C 283	18.8	1.2	43	18	AAV70014	H chain variable r
C 284	18.8	1.2	43	19	AAV31116	Mutline CD4/CD34 re
C 285	18.8	1.2	44	21	AAZ44243	Synthetic nucleoti
C 286	18.8	1.2	44	16	AAO84398	Probe to minisatel
C 287	18.8	1.2	45	12	AAO11829	Xenopus insulator
C 288	18.8	1.2	45	22	AAE67665	Xenopus insulator
C 289	18.8	1.2	45	22	AAE67666	Xenopus insulator
C 290	18.8	1.2	45	22	AAE67668	HIV anti-viral oli
C 291	18.8	1.2	47	20	AAV64736	Nucleotide sequenc

375	18.4	1.2	36	24	AAI39105	Antibody screening	C 448	18.2	1.2	40	21	AAZ96142	Polynucleotide seq
376	18.4	1.2	36	24	AAI39118	Antibody screening	C 449	18.2	1.2	40	22	AAE66312	PCR primer for amp
377	18.4	1.2	39	21	AAZ94974	Primer J533(B) us	C 450	18.2	1.2	41	15	AAO52423	Vector pVACI const
378	18.4	1.2	40	13	AAO25030	Oligonucleotide sp	C 451	18.2	1.2	41	24	ABU56705	Probe #1 for human
379	18.4	1.2	40	13	AAO25029	Oligonucleotide sp	C 452	18.2	1.2	42	16	AAO99006	(Gly4Ser)2 linker
380	18.4	1.2	40	21	AAZ96048	Polynucleotide seq	C 453	18.2	1.2	42	21	AAA12864	DNA encoding (Gly4
381	18.4	1.2	41	19	AAV51224	Melze polymorphic	C 454	18.2	1.2	42	21	AAA05766	Human growth hormo
382	18.4	1.2	44	19	AAV11503	A. niger transposa	C 455	18.2	1.2	42	22	AAE74232	DNA analysis metho
383	18.4	1.2	44	21	AAZ34476	E. coli formate de	C 456	18.2	1.2	43	24	AAI99298	Synthetic Renilla
384	18.4	1.2	44	21	AAZ34476	E. coli fdh seleno	C 457	18.2	1.2	43	20	AAK82033	Mouse heavy chain
385	18.4	1.2	44	17	AAZ42435	GD domain region f	C 458	18.2	1.2	45	20	AAK05364	Mouse heavy chain
386	18.4	1.2	45	20	AAK80091	Human PRO347 probe	C 459	18.2	1.2	46	15	AAO69434	Human heat shock p
387	18.4	1.2	45	21	AAA69921	Probe used to scre	C 460	18.2	1.2	46	18	AAE63896	Human hsp70B gene
388	18.4	1.2	45	21	AAA69921	Probe for cDNA enc	C 461	18.2	1.2	46	20	AAI17184	Test sequence from
389	18.4	1.2	45	21	AAZ36382	PCR primer DP47ban	C 462	18.2	1.2	46	24	ABK82675	DNA binding molecu
390	18.4	1.2	45	21	AAZ36382	Human scfv gene VH	C 463	18.2	1.2	47	19	AAV44007	Human map-related
391	18.4	1.2	45	24	ABK11184	DNA encoding BipIa	C 464	18.2	1.2	47	21	AAZ69138	Human map-related
392	18.4	1.2	45	24	ABK11184	Human protective D	C 465	18.2	1.2	47	21	AAZ69138	Primer #62 from pr
393	18.4	1.2	47	19	AAV49716	Plasmid pSLHirkl o	C 466	18.2	1.2	47	23	ABA09881	Human Chk1 ribozym
394	18.4	1.2	47	19	AAV49716	Plasmid pSLHirkl o	C 467	18.2	1.2	48	22	AAE74435	eryai gene KSI seg
395	18.4	1.2	47	19	AAV49716	Molusc acetylchol	C 468	18.2	1.2	48	22	AAE28330	Urokinase plasmino
396	18.4	1.2	47	22	AAH26376	C7 coding region p	C 469	18.2	1.2	48	24	ABK15480	Tail adaptor oligo
397	18.4	1.2	47	24	AAI72452	Bomblyx mori PBHPC	C 470	18.2	1.2	49	23	ABA10701	Tail adaptor oligo
398	18.4	1.2	48	16	AAO80730	Codon optimised si	C 471	18.2	1.2	49	23	ABA10718	Tail adaptor oligo
399	18.4	1.2	48	19	AAV18209	Human SNP oligonuc	C 472	18.2	1.2	49	23	ABA10718	Human non-histone
400	18.4	1.2	48	22	AAI29496	Nodavirus RNAl PCR	C 473	18.2	1.2	50	15	AAO69581	Human cytomagalovl
401	18.4	1.2	48	22	AAI33891	Oligo DEVA-2 for c	C 474	18.2	1.2	50	18	AAE73788	Multiplex short-PC
402	18.4	1.2	49	15	AAO69655	Human adenosine de	C 475	18.2	1.2	50	18	AAE73788	Multiplex short-PC
403	18.4	1.2	49	15	AAO69655	Human adenosine de	C 476	18.2	1.2	50	18	AAE73788	Multiplex short-PC
404	18.4	1.2	49	20	AAI64117	Test sequence from	C 477	18.2	1.2	50	18	AAE73788	Multiplex short-PC
405	18.4	1.2	49	20	AAI64117	HIV-1 zinc binding	C 478	18.2	1.2	50	18	AAE73788	Multiplex short-PC
406	18.4	1.2	49	22	AAI33008	Tail adaptor oligo	C 479	18.2	1.2	50	18	AAE73788	Multiplex short-PC
407	18.4	1.2	49	23	ABAI10640	DNA binding molecu	C 480	18.2	1.2	50	20	AAK80341	Human non-histone
408	18.4	1.2	49	23	ABAI10640	DNA binding molecu	C 481	18.2	1.2	50	20	AAK80341	Human non-histone
409	18.4	1.2	50	15	AAO69731	Human ubiquitin-1i	C 482	18.2	1.2	50	20	AAK80341	Human non-histone
410	18.4	1.2	50	15	AAO69731	Human erythropoiet	C 483	18.2	1.2	50	20	AAK80341	Human non-histone
411	18.4	1.2	50	15	AAO69731	Human histidine de	C 484	18.2	1.2	50	21	AAI77403	Test sequence from
412	18.4	1.2	50	18	AAE64193	Human ubiquitin-1i	C 485	18.2	1.2	50	21	AAI77403	Test sequence from
413	18.4	1.2	50	18	AAE64193	Human erythropoiet	C 486	18.2	1.2	50	22	AAI29583	Synthetic plasmid
414	18.4	1.2	50	20	AAE63838	Histidine decarbox	C 487	18.2	1.2	50	22	AAI29583	Synthetic plasmid
415	18.4	1.2	50	20	AAE63838	Test sequence from	C 488	18.2	1.2	50	22	AAI29583	Synthetic plasmid
416	18.4	1.2	50	20	AAE63838	Test sequence from	C 489	18.2	1.2	50	22	AAI29583	Synthetic plasmid
417	18.4	1.2	50	21	AAE19472	Human histidine de	C 490	18.2	1.2	50	22	AAI29583	Synthetic plasmid
418	18.4	1.2	50	21	AAE19472	Low adenosine anti	C 491	18.2	1.2	50	22	AAI29583	Synthetic plasmid
419	18.4	1.2	50	22	AAI27894	Human SNP oligonuc	C 492	18.2	1.2	50	22	AAI29583	Synthetic plasmid
420	18.4	1.2	50	22	AAI27894	Human SNP oligonuc	C 493	18.2	1.2	50	22	AAI29583	Synthetic plasmid
421	18.4	1.2	50	22	AAI28817	Human SNP oligonuc	C 494	18.2	1.2	50	22	AAI29583	Synthetic plasmid
422	18.4	1.2	50	22	AAI28896	Human SNP oligonuc	C 495	18.2	1.2	50	22	AAI29583	Synthetic plasmid
423	18.4	1.2	50	22	AAI28896	Human SNP oligonuc	C 496	18.2	1.2	50	22	AAI29583	Synthetic plasmid
424	18.4	1.2	50	22	AAI30113	Human SNP oligonuc	C 497	18.2	1.2	50	22	AAI29583	Synthetic plasmid
425	18.4	1.2	50	22	AAI30376	Human SNP oligonuc	C 498	18.2	1.2	50	22	AAI29583	Synthetic plasmid
426	18.4	1.2	50	22	AAI33675	Human SNP oligonuc	C 499	18.2	1.2	50	22	AAI29583	Synthetic plasmid
427	18.4	1.2	50	22	AAI34180	Human SNP oligonuc	C 500	18.2	1.2	50	22	AAI29583	Synthetic plasmid
428	18.4	1.2	50	22	AAI34566	Human SNP oligonuc	C 501	18.2	1.2	50	22	AAI29583	Synthetic plasmid
429	18.4	1.2	50	22	AAI78855	Human silent SNP c	C 502	18.2	1.2	50	22	AAI29583	Synthetic plasmid
430	18.4	1.2	50	23	ABE101021	Human SNP invovlin	C 503	18.2	1.2	50	22	AAI29583	Synthetic plasmid
431	18.4	1.2	50	24	ABK82617	DNA binding molecu	C 504	18.2	1.2	50	22	AAI29583	Synthetic plasmid
432	18.4	1.2	50	24	ABK82617	DNA binding molecu	C 505	18.2	1.2	50	22	AAI29583	Synthetic plasmid
433	18.4	1.2	50	24	ABK82972	Ets related gene (C 506	18.2	1.2	50	22	AAI29583	Synthetic plasmid
434	18.4	1.2	50	24	ABK13347	Human transcriptio	C 507	18.2	1.2	50	22	AAI29583	Synthetic plasmid
435	18.2	1.2	24	17	AAV15200	Central region seq	C 508	18.2	1.2	31	20	AAV44488	Human C/EBP polyu
436	18.2	1.2	25	19	AAV54558	Hedgehog protein d	C 509	18.2	1.2	31	20	AAV44488	Human C/EBP polyu
437	18.2	1.2	31	22	AAH78572	Probe used to dete	C 510	18.2	1.2	31	21	AAE20609	Human adenosine re
438	18.2	1.2	31	22	AAI31038	Human single nucle	C 511	18.2	1.2	31	21	AAE20609	Human adenosine re
439	18.2	1.2	32	14	AAO52007	B-cell mRNA ribozy	C 512	18.2	1.2	32	20	AAE20609	Human adenosine re
440	18.2	1.2	35	19	AAV62416	Human Desert hedge	C 513	18.2	1.2	32	21	AAE20609	Human adenosine re
441	18.2	1.2	35	19	AAV62416	Oligonucleotide CB	C 514	18.2	1.2	32	21	AAE20609	Human adenosine re
442	18.2	1.2	39	17	AAV35018	TRMP-1/fibronectin	C 515	18.2	1.2	33	20	AAE20609	Human adenosine re
443	18.2	1.2	39	18	AAE786348	Primer used in MHC	C 516	18.2	1.2	33	21	AAE20609	Human adenosine re
444	18.2	1.2	39	18	AAE786348	IL-4 2' NH2 RNA lig	C 517	18.2	1.2	33	21	AAE20609	Human adenosine re
445	18.2	1.2	39	18	AAE786348	IL-4 2' NH2 RNA lig	C 518	18.2	1.2	33	21	AAE20609	Human adenosine re
446	18.2	1.2	40	14	AAO50264	HIV env INS mutage	C 519	18.2	1.2	34	20	AAE20609	Human adenosine re
447	18.2	1.2	40	21	AAZ95854	Polynucleotide seq	C 520	18.2	1.2	34	21	AAE20609	Human adenosine re

521	18	1.1	34	21	AAA34484	Human adenosine re
522	18	1.1	35	20	AA89879	Monoclonal antipep
523	18	1.1	35	20	AA55036	C/EBP-beta antisen
524	18	1.1	35	20	AA55061	C/EBP-beta antisen
525	18	1.1	35	20	AAV99232	PCR primer used to
526	18	1.1	35	21	AAE20605	Human C/EBP polyu
527	18	1.1	35	21	AAE20630	Human C/EBP polyu
528	18	1.1	35	21	AAE72503	Degenerative oligo
529	18	1.1	35	21	AAA34483	Human adenosine re
530	18	1.1	35	21	AAA34508	Human adenosine re
531	18	1.1	36	15	AAO73470	Porcine interleukin
532	18	1.1	36	15	AAV60887	C/EBP-beta antisen
533	18	1.1	36	20	AA55035	Human C/EBP polyu
534	18	1.1	36	21	AAE20604	Human C/EBP polyu
535	18	1.1	36	21	AAA34482	Human C/EBP polyu
536	18	1.1	36	22	AA535819	Permutated linker e
537	18	1.1	36	22	AA511896	Probe p1672 for G1
538	18	1.1	38	12	AAO14201	Tissue plasminogen
539	18	1.1	39	15	AAV21265	Part of Psa gene
540	18	1.1	40	22	AAE28274	Vector pVAC1 const
541	18	1.1	41	15	AAV51143	Maize polymorphic
542	18	1.1	41	15	AAO62421	Human cathepsin 29
543	18	1.1	41	19	AAV47941	Multiple cloning s
544	18	1.1	41	22	AAH75556	Oligonucleotide c1
545	18	1.1	42	14	AAO34777	Oligonucleotide c3
546	18	1.1	42	16	AAO83950	PCR primer EGRE7 f
547	18	1.1	42	17	AAE24411	Oligonucleotide us
548	18	1.1	42	21	AAZ48717	Error prone PCR pr
549	18	1.1	42	24	ABN83751	Human immunodefici
550	18	1.1	43	19	AAV33085	p53 mutation detec
551	18	1.1	43	20	AAO10003	Xenopus insulator
552	18	1.1	43	24	AAO24760	Flt-1 gene probe A
553	18	1.1	44	24	AAO24760	Interleukin-4 2'F
554	18	1.1	44	24	AB182368	Primer 7. Synthet
555	18	1.1	45	16	AAO74158	CNS disorder-relat
556	18	1.1	45	22	AAE67664	Bombyx mori pBmPC
557	18	1.1	46	18	AAE69251	Human rearranged k
558	18	1.1	46	20	AAE77195	Human rearranged k
559	18	1.1	46	20	AAE77822	Test sequence from
560	18	1.1	47	20	AAE66566	Mutagenic primer 8
561	18	1.1	47	23	AAH88681	Ecotin site direct
562	18	1.1	48	15	AAO69453	Human bcl-2 proto-
563	18	1.1	48	16	AAO80731	Human bcl-2 proto-
564	18	1.1	48	20	AAH63915	Regulatable, catal
565	18	1.1	48	21	AAH63915	Rabbit anti A33 an
566	18	1.1	48	21	AAH63915	DNA binding molecu
567	18	1.1	48	22	AAH63915	Microsatellite seq
568	18	1.1	48	22	AAH63915	Tail adaptor oligo
569	18	1.1	48	22	AAH63915	Regulatable, catal
570	18	1.1	48	24	AAH63915	Rabbit anti A33 an
571	18	1.1	49	13	AAO33591	DNA binding molecu
572	18	1.1	49	23	ABA10685	Microsatellite seq
573	18	1.1	49	23	ABA10688	Tail adaptor oligo
574	18	1.1	49	24	AAO69724	Regulatable, catal
575	18	1.1	50	15	AAO69624	Human epidermal gr
576	18	1.1	50	15	AAO69624	Human epidermal gr
577	18	1.1	50	18	AAE76083	Human bcl-2 proto-
578	18	1.1	50	18	AAE76083	Human IGE receptor
579	18	1.1	50	18	AAE76083	Human IGE receptor
580	18	1.1	50	18	AAE76083	Human IGE receptor
581	18	1.1	50	18	AAE76083	Human IGE receptor
582	18	1.1	50	18	AAE76083	Human IGE receptor
583	18	1.1	50	18	AAE76083	Human IGE receptor
584	18	1.1	50	20	AAE76083	Human IGE receptor
585	18	1.1	50	20	AAE76083	Human IGE receptor
586	18	1.1	50	21	AAE76083	Human IGE receptor
587	18	1.1	50	21	AAE76083	Human IGE receptor
588	18	1.1	50	21	AAE76083	Human IGE receptor
589	18	1.1	50	21	AAE76083	Human IGE receptor
590	18	1.1	50	22	AAE76083	Human IGE receptor
591	18	1.1	50	22	AAE76083	Human IGE receptor
592	18	1.1	50	22	AAE76083	Human IGE receptor
593	18	1.1	50	22	AAE76083	Human IGE receptor

667	17.8	1.1	50	22	AA173843	Human silent SNP c	740	17.6	1.1	48	24	ABK86064	Protein C mutant K
668	17.8	1.1	50	24	ABK83028	DNA binding molecu	741	17.6	1.1	48	24	ABK86065	Protein C mutant K
669	17.8	1.1	50	24	AA518936	Human CLASP-1 intr	742	17.6	1.1	48	24	ABK80517	Hepatoma AS-30D Ty
670	17.6	1.1	25	24	ABT03636	Human Hey-2 gene p	743	17.6	1.1	49	18	AA173974	Human amyloid A4 p
671	17.6	1.1	27	18	AA138851	Marmoset intracell	744	17.6	1.1	49	18	AA173974	Human amyloid A4 p
672	17.6	1.1	28	21	AA243856	Human IgG4 heavy c	745	17.6	1.1	49	23	ABK09759	Test sequence from
673	17.6	1.1	28	21	AA243856	Human inflammatory	746	17.6	1.1	49	23	ABK09759	Test sequence from
674	17.6	1.1	30	24	ABK27945	Lipolytic enzyme p	747	17.6	1.1	49	23	ABK09759	Test sequence from
675	17.6	1.1	31	18	AA435522	Anti-Lymphoma anti	748	17.6	1.1	49	24	ABK82753	Adaptor oligonucle
676	17.6	1.1	31	20	AA588688	Alfa aldose red	749	17.6	1.1	50	12	AA015886	Primer #49 from pr
677	17.6	1.1	31	21	AA588688	Human genomic DNA	750	17.6	1.1	50	12	AA015886	Primer #49 from pr
678	17.6	1.1	32	13	AA033551	Microsatellite seq	751	17.6	1.1	50	15	AA069444	Tail adaptor oligo
679	17.6	1.1	32	20	AA176429	Sequencing reagent	752	17.6	1.1	50	18	AA176429	DNA binding molecu
680	17.6	1.1	32	21	AA176429	Primer RFL 5' EcoR	753	17.6	1.1	50	18	AA176429	DNA binding molecu
681	17.6	1.1	33	13	AA033551	Microsatellite seq	754	17.6	1.1	50	18	AA176429	DNA binding molecu
682	17.6	1.1	33	16	AA073565	Gene-specific prim	755	17.6	1.1	50	19	AA176429	DNA binding molecu
683	17.6	1.1	34	18	AA080845	Gene-specific prim	756	17.6	1.1	50	19	AA176429	DNA binding molecu
684	17.6	1.1	35	20	AA080845	Oligonucleotide of	757	17.6	1.1	50	19	AA176429	DNA binding molecu
685	17.6	1.1	36	18	AA052042	Breast cancer spec	758	17.6	1.1	50	20	AA176429	DNA binding molecu
686	17.6	1.1	36	22	AA178495	RET proto-oncogene	759	17.6	1.1	50	20	AA176429	DNA binding molecu
687	17.6	1.1	36	22	AA178495	Human collagen gen	760	17.6	1.1	50	21	AA176429	DNA binding molecu
688	17.6	1.1	40	13	AA025025	Anti-sense oligonu	761	17.6	1.1	50	21	AA176429	DNA binding molecu
689	17.6	1.1	40	20	AA063195	Primer for amplifi	762	17.6	1.1	50	22	AA176429	DNA binding molecu
690	17.6	1.1	40	21	AA235904	Polynucleotide seq	763	17.6	1.1	50	22	AA176429	DNA binding molecu
691	17.6	1.1	40	21	AA235904	Polynucleotide seq	764	17.6	1.1	50	22	AA176429	DNA binding molecu
692	17.6	1.1	41	15	AA069493	Human motilin gene	765	17.6	1.1	50	22	AA176429	DNA binding molecu
693	17.6	1.1	41	18	AA069493	Human motilin gene	766	17.6	1.1	50	22	AA176429	DNA binding molecu
694	17.6	1.1	41	19	AA069493	Human motilin gene	767	17.6	1.1	50	22	AA176429	DNA binding molecu
695	17.6	1.1	41	19	AA069493	Human motilin gene	768	17.6	1.1	50	22	AA176429	DNA binding molecu
696	17.6	1.1	41	19	AA069493	Human motilin gene	769	17.6	1.1	50	22	AA176429	DNA binding molecu
697	17.6	1.1	41	19	AA069493	Human motilin gene	770	17.6	1.1	50	22	AA176429	DNA binding molecu
698	17.6	1.1	41	19	AA069493	Human motilin gene	771	17.6	1.1	50	22	AA176429	DNA binding molecu
699	17.6	1.1	41	20	AA23515	Test sequence from	772	17.6	1.1	50	22	AA176429	DNA binding molecu
700	17.6	1.1	41	20	AA23515	Test sequence from	773	17.6	1.1	50	22	AA176429	DNA binding molecu
701	17.6	1.1	41	22	AA17243	5' and 3' targetin	774	17.6	1.1	50	22	AA176429	DNA binding molecu
702	17.6	1.1	41	22	AA17243	DNA binding molecu	775	17.6	1.1	50	22	AA176429	DNA binding molecu
703	17.6	1.1	41	24	ABK82734	Slicing factor Pp	776	17.6	1.1	50	22	AA176429	DNA binding molecu
704	17.6	1.1	42	24	ABK82734	H. virescens JHE p	777	17.6	1.1	50	22	AA176429	DNA binding molecu
705	17.6	1.1	42	21	AA05763	Human growth hormo	778	17.6	1.1	50	22	AA176429	DNA binding molecu
706	17.6	1.1	42	21	AA05763	Human growth hormo	779	17.6	1.1	50	22	AA176429	DNA binding molecu
707	17.6	1.1	42	22	AA05763	Xenopus insulator	780	17.6	1.1	50	22	AA176429	DNA binding molecu
708	17.6	1.1	42	24	ABK82734	Non-replicative Va	781	17.6	1.1	50	22	AA176429	DNA binding molecu
709	17.6	1.1	43	20	AA05763	Human retrovirus D	782	17.6	1.1	50	22	AA176429	DNA binding molecu
710	17.6	1.1	43	22	AA05763	PCR primer for amp	783	17.6	1.1	50	22	AA176429	DNA binding molecu
711	17.6	1.1	44	14	AA05763	PCR primer for amp	784	17.6	1.1	50	22	AA176429	DNA binding molecu
712	17.6	1.1	44	15	AA05763	Degenerate probe f	785	17.6	1.1	50	22	AA176429	DNA binding molecu
713	17.6	1.1	44	15	AA05763	Human sodium/potas	786	17.6	1.1	50	24	ABK97280	Human IL6 receptor
714	17.6	1.1	44	15	AA05763	Human Na/K ATPase	787	17.6	1.1	50	24	ABK97280	Human IL6 receptor
715	17.6	1.1	44	18	AA05763	3' AAV-ITR primer	788	17.6	1.1	50	24	ABK97280	Human IL6 receptor
716	17.6	1.1	44	18	AA05763	Human antibody VH	789	17.6	1.1	50	24	ABK97280	Human IL6 receptor
717	17.6	1.1	44	20	AA05763	Test sequence from	790	17.6	1.1	50	24	ABK97280	Human IL6 receptor
718	17.6	1.1	44	20	AA05763	DNA binding molecu	791	17.6	1.1	50	24	ABK97280	Human IL6 receptor
719	17.6	1.1	44	24	ABK82554	Primer for chimeri	792	17.6	1.1	50	24	ABK97280	Human IL6 receptor
720	17.6	1.1	45	17	AA05763	Phage display libr	793	17.6	1.1	50	24	ABK97280	Human IL6 receptor
721	17.6	1.1	45	20	AA05763	DNA encoding RGR-	794	17.6	1.1	50	24	ABK97280	Human IL6 receptor
722	17.6	1.1	45	21	AA05763	Human scfv light a	795	17.6	1.1	50	24	ABK97280	Human IL6 receptor
723	17.6	1.1	45	21	AA05763	Human scfv light a	796	17.6	1.1	50	24	ABK97280	Human IL6 receptor
724	17.6	1.1	45	21	AA05763	Human scfv light a	797	17.6	1.1	50	24	ABK97280	Human IL6 receptor
725	17.6	1.1	45	21	AA05763	Human scfv light a	798	17.6	1.1	50	24	ABK97280	Human IL6 receptor
726	17.6	1.1	45	24	ABK82554	Human scfv light a	799	17.6	1.1	50	24	ABK97280	Human IL6 receptor
727	17.6	1.1	46	15	AA062448	Vector pVAC1 const	800	17.6	1.1	50	24	ABK97280	Human IL6 receptor
728	17.6	1.1	46	16	AA062448	Gene delivery fusi	801	17.6	1.1	50	24	ABK97280	Human IL6 receptor
729	17.6	1.1	46	17	AA062448	C. elegans gluta	802	17.6	1.1	50	24	ABK97280	Human IL6 receptor
730	17.6	1.1	46	17	AA062448	Human silent SNP c	803	17.6	1.1	50	24	ABK97280	Human IL6 receptor
731	17.6	1.1	46	22	AA174098	Human interleukin	804	17.6	1.1	50	24	ABK97280	Human IL6 receptor
732	17.6	1.1	47	18	AA174098	Vector PROCS4/7.1	805	17.6	1.1	50	24	ABK97280	Human IL6 receptor
733	17.6	1.1	47	19	AA174098	Probe for human pg	806	17.6	1.1	50	24	ABK97280	Human IL6 receptor
734	17.6	1.1	47	20	AA174098	Human map-related	807	17.6	1.1	50	24	ABK97280	Human IL6 receptor
735	17.6	1.1	47	21	AA174098	Human map-related	808	17.6	1.1	50	24	ABK97280	Human IL6 receptor
736	17.6	1.1	47	21	AA174098	CNS disorder-relat	809	17.6	1.1	50	24	ABK97280	Human IL6 receptor
737	17.6	1.1	47	23	AA174098	Human IGFBR3 site	810	17.6	1.1	50	24	ABK97280	Human IL6 receptor
738	17.6	1.1	48	18	AA174098	Phyrtase gene probe	811	17.6	1.1	50	24	ABK97280	Human IL6 receptor
739	17.6	1.1	48	20	AA174098	Nucleotide sequenc	812	17.6	1.1	50	24	ABK97280	Human IL6 receptor
						Nascent protein de							

C 813	17.4	1.1	36	21	AAA34456	Human adenosine re	C 886	17.4	1.1	47	21	AAZ68973	Human map-related
C 814	17.4	1.1	37	20	AAZ55008	C/EBP-beta antisen	C 887	17.4	1.1	47	22	AAZ68973	Human gamma 1 cons
C 815	17.4	1.1	37	20	AAZ55008	Human C/EBP polynu	C 888	17.4	1.1	47	24	ABR82504	DNA binding molecu
C 816	17.4	1.1	37	21	AAA34455	Human adenosine re	C 889	17.4	1.1	47	24	ABR82504	Chicken tenascin t
C 817	17.4	1.1	37	24	AAZ19086	Human chorionic go	C 890	17.4	1.1	47	24	ABR82504	Gene delivery fusi
C 818	17.4	1.1	38	17	AAZ15807	Humanised L12 Mab	C 891	17.4	1.1	48	16	AAZ02970	Human oligo 8 to c
C 819	17.4	1.1	38	18	AAZ88132	Primer for variabl	C 892	17.4	1.1	48	22	AAZ02970	PCR primer #11. U
C 820	17.4	1.1	38	20	AAZ55007	C/EBP-beta antisen	C 893	17.4	1.1	49	22	AAZ13008	HIV-1 zinc binding
C 821	17.4	1.1	38	21	AAZ55007	Human C/EBP polynu	C 894	17.4	1.1	50	12	AAZ13008	Oligonucleotide wh
C 822	17.4	1.1	38	21	AAZ55007	Human C/EBP polynu	C 895	17.4	1.1	50	17	AAZ13008	Oligonucleotide co
C 823	17.4	1.1	38	24	ABL31969	FokI/FspI containi	C 896	17.4	1.1	50	17	AAZ13008	Oligonucleotide ha
C 824	17.4	1.1	38	24	ABL31969	C/EBP-beta antisen	C 897	17.4	1.1	50	17	AAZ13008	Human secreted pro
C 825	17.4	1.1	39	20	AAZ55006	Human adenosine re	C 898	17.4	1.1	50	17	AAZ13008	Human secreted pro
C 826	17.4	1.1	39	20	AAZ55006	Human C/EBP polynu	C 899	17.4	1.1	50	21	AAZ13008	Human secreted pro
C 827	17.4	1.1	39	21	AAZ55005	PCR primer C2 used	C 900	17.4	1.1	50	21	AAZ13008	Human secreted pro
C 828	17.4	1.1	39	21	AAZ55005	Chlamydia pneumoni	C 901	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 829	17.4	1.1	39	24	ABL91539	C/EBP-beta antisen	C 902	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 830	17.4	1.1	40	20	AAZ55005	Human C/EBP polynu	C 903	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 831	17.4	1.1	40	20	AAZ55005	Human C/EBP polynu	C 904	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 832	17.4	1.1	40	21	AAZ55004	Human C/EBP polynu	C 905	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 833	17.4	1.1	40	21	AAZ55004	Human C/EBP polynu	C 906	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 834	17.4	1.1	41	20	AAZ55004	Human C/EBP polynu	C 907	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 835	17.4	1.1	41	20	AAZ55004	Human C/EBP polynu	C 908	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 836	17.4	1.1	41	21	AAZ55004	Human C/EBP polynu	C 909	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 837	17.4	1.1	41	21	AAZ55004	Human C/EBP polynu	C 910	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 838	17.4	1.1	41	21	AAZ55004	Human C/EBP polynu	C 911	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 839	17.4	1.1	41	24	AAZ55004	Reverse primer for	C 912	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 840	17.4	1.1	42	20	AAZ55003	C/EBP-beta antisen	C 913	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 841	17.4	1.1	42	20	AAZ55003	Human C/EBP polynu	C 914	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 842	17.4	1.1	42	20	AAZ55003	Human C/EBP polynu	C 915	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 843	17.4	1.1	42	21	AAZ55002	Human C/EBP polynu	C 916	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 844	17.4	1.1	42	21	AAZ55002	Human C/EBP polynu	C 917	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 845	17.4	1.1	43	9	AAZ55002	Linker used to mak	C 918	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 846	17.4	1.1	43	10	AAZ55002	Oligonucleotide pr	C 919	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 847	17.4	1.1	43	20	AAZ55002	Probe for 2,5-dike	C 920	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 848	17.4	1.1	43	21	AAZ55002	C/EBP-beta antisen	C 921	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 849	17.4	1.1	43	21	AAZ55002	Human C/EBP polynu	C 922	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 850	17.4	1.1	44	15	AAZ55002	Human C/EBP polynu	C 923	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 851	17.4	1.1	44	18	AAZ55002	Human C/EBP polynu	C 924	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 852	17.4	1.1	44	18	AAZ55002	Human C/EBP polynu	C 925	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 853	17.4	1.1	44	20	AAZ55001	Human C/EBP polynu	C 926	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 854	17.4	1.1	44	20	AAZ55001	Human C/EBP polynu	C 927	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 855	17.4	1.1	44	21	AAZ55001	Human C/EBP polynu	C 928	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 856	17.4	1.1	44	21	AAZ55001	Human C/EBP polynu	C 929	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 857	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 930	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 858	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 931	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 859	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 932	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 860	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 933	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 861	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 934	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 862	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 935	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 863	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 936	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 864	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 937	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 865	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 938	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 866	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 939	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 867	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 940	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 868	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 941	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 869	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 942	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 870	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 943	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 871	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 944	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 872	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 945	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 873	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 946	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 874	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 947	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 875	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 948	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 876	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 949	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 877	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 950	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 878	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 951	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 879	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 952	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 880	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 953	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 881	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 954	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 882	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 955	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 883	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 956	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 884	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 957	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc
C 885	17.4	1.1	44	22	AAZ55001	Human C/EBP polynu	C 958	17.4	1.1	50	22	AAZ128563	Human SNP oligonuc

Example 1; Page 62; 178pp; English.

50 Sequence 50 BP; 6 A; 17 C; 13 G; 14 T; 0 other;

OY		CGGCGAGGGGTTCGGGAAGAAGAGGCACCCCAAAAAGCTGACCCTTTTA	277
D6			
	50	CGGCGAGGGGTTCGGGAAGAAGAGGCACCCCAAAAAGCTGACCCTTTTA	1

AC	AAD09079;
XX	
DT	04-SEP-2001 (first entry)
XX	

Homo sapiens.

PN WO200134654-A1
XX

17-MAY-2001

02-NOV-2000; 2000WO-US30405.

05-NOV-1999; 99US-0164025.

(BIOL) BIOGEN INC.

PI Strauch K;

DR WPI; 2001-329075/34
yy

Example 1; Page 62; 178pp; English
PS
yy

50 Sequence 50 BP; 6 A; 19 C; 13 G; 12 T; 0 other;

OY 228 CGGGCAGGGGTTCCGGAAGAGAGGCCACCCCAAAAAGCTGACCCCTTTA 277
|||||
Db 50 CGGGCAGGGGTTCCGGAAGAGAGGCCACCCCAAAAAGCTGACCCCTTTA 1

RESULT 4
AAD09081/c
ID AAD09081 standard; DNA; 50 BP.

AC	AAD09081;
XX	
DT	04-SEP-2001 (first entry)
VV	

Human oligonucleotide HOG-807 used to construct pMMC26

KW Human; hedgehog protein; nontropic; neuroprotective; anticonvulsant;
KW cystostatic; therapy; Alzheimer's disease; Parkinson's disease; injury;
KW Huntington's chorea; amyotrophic lateral sclerosis; multiple sclerosis
KW nervous system aging; neurodegenerative disease; immunological disease
KW malignant glioma; medulloblastoma; neurocutaneous tumour; cancer;
KW extracellular signalling protein; HOG-807; ss.

05 Homo sapiens
XX

PN WO200134654-A1

PD 17-MAY-2001
XX

02-NOV-2000; 2000WO-US30405

PR 05-NOV-1999; 99US-0164025.
XX

PA . (BIOJ) BIOGEN INC
XY

PI Strauch K;
xy

WPI; 2001-329075/34

Novel isolated hedgehog fusion polypeptide useful for treating

PT neurological conditions such as Alzheimer's disease, Parkinson's
 PT disease, Huntington's chorea, amyotrophic lateral sclerosis, and
 PT multiple sclerosis -

PS Example 1; Page 62; 178pp; English.

XX The present invention relates to hedgehog fusion proteins. Hedgehog
 CC proteins are a family of extracellular signalling proteins that regulate
 CC various aspects of embryonic development both in vertebrates and in
 CC invertebrates. Hedgehog fusion protein is useful for the prophylaxis or
 CC treatment of any condition or disease state for which a hedgehog or
 CC patched protein constituent is efficacious and in the diagnosis of
 CC constituents or conditions of disease states in non-physiological systems.
 CC Specimens and for diagnostic purposes in non-physiological systems.
 CC Hedgehog fusion protein is useful for treating neurological conditions
 CC due to injury, aging of nervous system, including Alzheimer's disease,
 CC chronic neurodegenerative diseases of the nervous system, including
 CC Parkinson's disease, Huntington's chorea, amyotrophic lateral sclerosis
 CC and chronic immunological diseases of nervous system including multiple
 CC sclerosis and malignant gliomas, medulloblastomas, neuroectodermal
 CC tumours and to specifically target medical therapies against cancers and
 CC tumours which express the receptor for the protein. The present sequence
 CC is human oligonucleotide HOG-807 used to construct pMNC26 plasmid which
 CC is used in the invention.

XX Sequence 50 BP; 6 A; 19 C; 15 G; 10 T; 0 other;

Query Match 2.9%; Score 45.2; DB 22; Length 50;
 Best Local Similarity 94.0%; Pred. No. 47;
 Matches 47; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 228 CGGCGAGGGGTTGCGGAGAGGAGGACCCCAAAAGCTGACCCCTTA 277
 DB 50 CGGCGAGGGGTTGCGGAGAGGAGGACCCCAAGCTGACCCCTTA 1

RESULT 5
 AAD09073
 ID AAD09073 standard; DNA; 47 BP.

AC AAD09073;

DT 04-SEP-2001 (first entry)

DE Human oligonucleotide HOG-789 used to construct pMNC22.

XX Human; hedgehog protein; neurotropic; neuroprotective; anticonvulsant;
 KW cytoskeletal; therapy; Alzheimer's disease; Parkinson's disease; injury;
 KW Huntington's chorea; amyotrophic lateral sclerosis; multiple sclerosis;
 KW nervous system aging; neurodegenerative disease; immunological disease;
 KW malignant glioma; medulloblastoma; neuroectodermal tumour; cancer;
 KW extracellular signalling protein; HOG-789; ss.

OS Homo sapiens.

PN WO200134654-A1.

PD 17-MAY-2001.

PF 02-NOV-2000; 2000WO-US30405.

PR 05-NOV-1999; 99US-0164025.

PA (BIOI) BIOGEN INC.

PI Strauch K;

DR WPI; 2001-329075/34.

XX Novel isolated hedgehog fusion polypeptide useful for treating
 PT neurological conditions such as Alzheimer's disease, Parkinson's
 PT disease, Huntington's chorea, amyotrophic lateral sclerosis, and
 PT multiple sclerosis -

XX Example 1; Page 61; 178pp; English.

PS The present invention relates to hedgehog fusion proteins. Hedgehog
 CC proteins are a family of extracellular signalling proteins that regulate
 CC various aspects of embryonic development both in vertebrates and in
 CC invertebrates. Hedgehog fusion protein is useful for the prophylaxis or
 CC treatment of any condition or disease state for which a hedgehog or
 CC patched protein constituent is efficacious and in the diagnosis of
 CC constituents or conditions of disease states in non-physiological systems.
 CC Specimens and for diagnostic purposes in non-physiological systems.
 CC Hedgehog fusion protein is useful for treating neurological conditions
 CC due to injury, aging of nervous system, including Alzheimer's disease,
 CC chronic neurodegenerative diseases of the nervous system, including
 CC Parkinson's disease, Huntington's chorea, amyotrophic lateral sclerosis
 CC and chronic immunological diseases of nervous system including multiple
 CC sclerosis and malignant gliomas, medulloblastomas, neuroectodermal
 CC tumours and to specifically target medical therapies against cancers and
 CC tumours which express the receptor for the protein. The present sequence
 CC is human oligonucleotide HOG-789 used to construct pMNC22 plasmid which
 CC is used in the invention.

XX Sequence 47 BP; 13 A; 13 C; 18 G; 3 T; 0 other;

Query Match 2.8%; Score 43.8; DB 22; Length 47;
 Best Local Similarity 95.7%; Pred. No. 81;
 Matches 45; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 225 GACCGGCGAGGGGTTGCGGAGAGGAGGACCCCAAAAGCTGACC 271
 DB 1 GCCCGGCGAGGGGTTGCGGAGAGGAGGACCCCAAAAGCTGACC 47

RESULT 6
 AAD09074
 ID AAD09074 standard; DNA; 47 BP.

AC AAD09074;

DT 04-SEP-2001 (first entry)

DE Human oligonucleotide HOG-791 used to construct pMNC23.

XX Human; hedgehog protein; neurotropic; neuroprotective; anticonvulsant;
 KW cytoskeletal; therapy; Alzheimer's disease; Parkinson's disease; injury;
 KW Huntington's chorea; amyotrophic lateral sclerosis; multiple sclerosis;
 KW nervous system aging; neurodegenerative disease; immunological disease;
 KW malignant glioma; medulloblastoma; neuroectodermal tumour; cancer;
 KW extracellular signalling protein; HOG-791; ss.

OS Homo sapiens.

PN WO200134654-A1.

PD 17-MAY-2001.

PF 02-NOV-2000; 2000WO-US30405.

PR 05-NOV-1999; 99US-0164025.

PA (BIOI) BIOGEN INC.

PI Strauch K;

DR WPI; 2001-329075/34.

XX Novel isolated hedgehog fusion polypeptide useful for treating
 PT neurological conditions such as Alzheimer's disease, Parkinson's
 PT disease, Huntington's chorea, amyotrophic lateral sclerosis, and
 PT multiple sclerosis -
 XX Example 1; Page 61-62; 178pp; English.

proteins are a family of extracellular signalling proteins that regulate various aspects of embryonic development both in vertebrates and in

which have increased bioavailability. The hedgehog proteins are

CC glycol group, with the proviso that the polymer is not conjugated to the
 CC N-terminus, or to lysine residues of the hedgehog protein. The hedgehog
 CC protein used in the conjugate may be a wild-type or mutant Sonic hedgehog
 CC (Shh), Indian hedgehog (Ihh) or Desert hedgehog (Dhh) protein, or may be
 CC a hedgehog fusion protein. The invention also relates to methods of
 CC defining and mapping functionally important regions of a protein by
 CC modifying accessible amino acid side chains, and determining the effect
 CC the position and/or type of modification have on the activity of the
 CC protein. The hedgehog polymer conjugates may be used in the management of
 CC various medical conditions including various neurological disorders, they
 CC inflammatory and autoimmune diseases, and cancers. In particular, the
 CC may be used to prevent preventing or ameliorate neurodegenerative
 CC disorders (e.g., Parkinson's disease, Huntington's disease, Alzheimer's
 CC disease); age-associated neurological disease; neurological injury and
 CC trauma; immunological diseases of the nervous system (e.g., multiple
 CC sclerosis); stroke; and malignant gliomas, medulloblastomas and
 CC neuroectodermal tumours. The modifications made to the hedgehog protein
 CC may result in increased half-life, altered tissue distribution (such as
 CC an improved ability to stay in the vasculature for longer periods of
 CC time), increased stability in solution, protection from proteolytic
 CC degradation, or reduced immunogenicity. In particular, the ability to
 CC remain in the vasculature for prolonged periods may allow a hedgehog
 CC protein in the invention to cross the blood-brain barrier, and an
 CC increased thermal stability would be an advantage when formulating the
 CC hedgehog protein in powder form. The present sequence represents a
 CC human Sonic hedgehog mutagenic primer used in an exemplification of the
 CC invention.

CC Sequence 48 BP; 10 A; 13 C; 15 G; 10 T; 0 other;

CC Query Match 2.7%; Score 43.2; DB 22; Length 48;

CC Best Local Similarity 93.8%; Pred. No. 1e+02; Mismatches 0; Gaps 0;

CC Matches 45; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

CC 278 GCCTACAGACGATTATCCCAATGTGCGCCGAGAACCCCTAGCGGCC 325

CC 48 GCCTACAGACGATTATCCCTGTGTGCTGAGAGACCCCTAGCGGCC 1

CC Db

CC AAF27034/C

CC AAF27034 standard; DNA; 48 BP.

CC AAF27034;

CC 30-MAR-2001 (first entry)

CC Human Sonic hedgehog (Shh) mutagenic primer, SEQ ID NO:38.

CC Sonic hedgehog; Shh; polymer conjugate; polyalkene glycol group;

CC bioavailability; formulation; neurological disorder;

CC inflammatory disorder; autoimmune disorder; cancer;

CC neurodegenerative disorder; Parkinson's disease; Huntington's disease;

CC Alzheimer's disease; neurological injury; stroke; multiple sclerosis;

CC malignant glioma; medulloblastoma; neuroectodermal tumour;

CC mutagenic primer; ss.

CC Homo sapiens.

CC Synthetic.

CC WO200073337-A1.

CC 07-DEC-2000.

CC 26-MAY-2000; 2000WO-US14741.

CC 01-JUN-1999; 99US-0137011.

CC 13-AUG-1999; 99US-0149016.

CC (BIOJ) BIOGEN INC.

CC Peplinsky RB, Taylor F, Garber E;

DR WPI: 2001-049927/06.

XX Modified hedgehog protein, useful in the treatment of Parkinson's

XX disease and Huntington's chorea, comprises a polymer containing a

XX polyalkylene glycol group linked to any residue other than the

XX N-terminal and lysine residues -

XX Example 6: page 77; 157pp; English.

XX The invention relates to novel polymer conjugates of hedgehog proteins

XX which have increased bioavailability. The hedgehog proteins are

XX conjugated to a non-naturally-occurring polymer comprising a polyalkylene

XX glycol group, with the proviso that the polymer is not conjugated to the

XX N-terminus, or to lysine residues of the hedgehog protein. The hedgehog

XX protein used in the conjugate may be a wild-type or mutant Sonic hedgehog

XX (Shh), Indian hedgehog (Ihh) or Desert hedgehog (Dhh) protein, or may be

XX a hedgehog fusion protein. The invention also relates to methods of

XX defining and mapping functionally important regions of a protein by

XX modifying accessible amino acid side chains, and determining the effect

XX the position and/or type of modification have on the activity of the

XX protein. The hedgehog polymer conjugates may be used in the management of

XX various medical conditions including various neurological disorders,

XX inflammatory and autoimmune diseases, and cancers. In particular, they

XX may be used to prevent preventing or ameliorate neurodegenerative

XX disorders (e.g., Parkinson's disease, Huntington's disease, Alzheimer's

XX disease); age-associated neurological disease; neurological injury and

XX trauma; immunological diseases of the nervous system (e.g., multiple

XX sclerosis); stroke; and malignant gliomas, medulloblastomas and

XX neuroectodermal tumours. The modifications made to the hedgehog protein

XX may result in increased half-life, altered tissue distribution (such as

XX an improved ability to stay in the vasculature for longer periods of

XX time), increased stability in solution, protection from proteolytic

XX degradation, or reduced immunogenicity. In particular, the ability to

XX remain in the vasculature for prolonged periods may allow a hedgehog

XX protein of the invention to cross the blood-brain barrier, and an

XX increased thermal stability would be an advantage when formulating the

XX hedgehog protein in powder form. The present sequence represents a

XX human Sonic hedgehog mutagenic primer used in an exemplification of the

XX invention.

XX Sequence 48 BP; 10 A; 15 C; 7 G; 16 T; 0 other;

XX Query Match 2.7%; Score 43.2; DB 22; Length 48;

XX Best Local Similarity 93.8%; Pred. No. 1e+02; Mismatches 0; Gaps 0;

XX Matches 45; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

CC 398 GACATCATATTATTAAGATGAGAAACACCGACCGACGAGCTGATG 445

CC 48 GACATCATATTATTAAGATGAGAAAGTACCGACCGACGAGCTGATG 1

CC Db

CC AAD09080/C

CC AAD09080 standard; DNA; 50 BP.

CC AAD09080;

CC 04-SEP-2001 (first entry)

CC Human oligonucleotide HOG-806 used to construct pMKC25.

CC Human; hedgehog protein; nootropic; neuroprotective; anticonvulsant;

CC cytoskeletal; therapy; Alzheimer's disease; Parkinson's disease; injury;

CC Huntington's chorea; amyotrophic lateral sclerosis; multiple sclerosis;

CC nervous system aging; neurodegenerative disease; immunological disease;

CC malignant glioma; medulloblastoma; neuroectodermal tumour; cancer;

CC extracellular signaling protein; HOG-806; ss.

CC Homo sapiens.

CC WO200134654-A1.

CC 17-MAY-2001.

XX 02-NOV-2000; 2000MO-US30405.
 XX
 XX
 PR 05-NOV-1999; 99US-0164025.
 XX
 XX
 PA (BIOJ) BIOGEN INC.
 XX
 XX
 PI Strauch K;
 XX
 DR WPI: 2001-329075/34.
 XX
 XX
 PR Novel isolated hedgehog fusion polypeptide useful for treating
 PR neurological conditions such as Alzheimer's disease, Parkinson's
 PR disease, Huntington's chorea, amyotrophic lateral sclerosis, and
 PR multiple sclerosis -
 XX
 XX
 PS Example 1; Page 62; 178bp; English.
 XX
 XX
 CC The present invention relates to hedgehog fusion proteins. Hedgehog
 CC proteins are a family of extracellular signalling proteins that regulate
 CC various aspects of embryonic development both in vertebrates and in
 CC invertebrates. Hedgehog fusion protein is useful for the prophylaxis or
 CC treatment of any condition or disease state for which a hedgehog or
 CC patched protein constituent is efficacious and in the diagnosis of
 CC constituents or conditions of disease states in non-physiological systems.
 CC Hedgehog fusion protein is useful for treating neurological conditions
 CC due to injury, aging of nervous system, including Alzheimer's disease,
 CC chronic neurodegenerative diseases of the nervous system, including
 CC Parkinson's disease, Huntington's chorea, amyotrophic lateral sclerosis
 CC and chronic immunological diseases of nervous system including multiple
 CC sclerosis and malignant gliomas, medulloblastomas, neuroectodermal
 CC tumours and to specifically target medical therapies against cancers and
 CC tumours which express the receptor for the protein. The present sequence
 CC is human oligonucleotide HOG-806 used to construct pMNC25 plasmid which
 CC is used in the invention.
 XX
 XX
 SQ Sequence 50 BP; 6 A; 16 C; 16 G; 12 T; 0 other;
 XX
 XX
 Query Match 2.7%; Score 42; DB 22; Length 50;
 Best Local Similarity 90.0%; Pred. No. 1.6e+02;
 Matches 45; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
 XX
 OY 228 CGGCGAGGGGTTGCGGAGAGGAGGACCCCAAAAGCTGACCCCTTTA 277
 Db 50 CGGCGAGGGGTTGCGGAGAGGAGGACCCCAAAAGCTGACCCCTTTA 1
 XX
 XX
 RESULT 11
 ID AAD09082/c
 XX AAD09082 standard; DNA: 43 BP.
 AC
 XX AAD09082;
 AC
 XX
 DT 04-SEP-2001 (first entry)
 XX
 DE Human oligonucleotide HOG-808 used to construct pMNC22.
 XX
 XX
 KW Human; hedgehog protein; neurotropic; neuroprotective; anticonvulsant;
 KW cytoskeletal; therapy; Alzheimer's disease; Parkinson's disease; injury;
 KW Huntington's chorea; amyotrophic lateral sclerosis; multiple sclerosis;
 KW nervous system aging; neurodegenerative disease; immunological disease;
 KW malignant glioma; medulloblastoma; neuroectodermal tumour; cancer;
 KW extracellular signalling protein; HOG-808; ss.
 XX
 XX
 OS Homo sapiens.
 XX
 PN WO200134654-A1.
 XX
 PD 17-MAY-2001.
 XX
 PF 02-NOV-2000; 2000MO-US30405.
 XX
 XX

PR 05-NOV-1999; 99US-0164025.
 XX
 XX
 PA (BIOJ) BIOGEN INC.
 XX
 XX
 PI Strauch K;
 XX
 DR WPI: 2001-329075/34.
 XX
 XX
 PR Novel isolated hedgehog fusion polypeptide useful for treating
 PR neurological conditions such as Alzheimer's disease, Parkinson's
 PR disease, Huntington's chorea, amyotrophic lateral sclerosis, and
 PR multiple sclerosis -
 XX
 XX
 PS Example 1; Page 62; 178bp; English.
 XX
 XX
 CC The present invention relates to hedgehog fusion proteins. Hedgehog
 CC proteins are a family of extracellular signalling proteins that regulate
 CC various aspects of embryonic development both in vertebrates and in
 CC invertebrates. Hedgehog fusion protein is useful for the prophylaxis or
 CC treatment of any condition or disease state for which a hedgehog or
 CC patched protein constituent is efficacious and in the diagnosis of
 CC constituents or conditions of disease states in non-physiological systems.
 CC Hedgehog fusion protein is useful for treating neurological conditions
 CC due to injury, aging of nervous system, including Alzheimer's disease,
 CC chronic neurodegenerative diseases of the nervous system, including
 CC Parkinson's disease, Huntington's chorea, amyotrophic lateral sclerosis
 CC and chronic immunological diseases of nervous system including multiple
 CC sclerosis and malignant gliomas, medulloblastomas, neuroectodermal
 CC tumours and to specifically target medical therapies against cancers and
 CC tumours which express the receptor for the protein. The present sequence
 CC is human oligonucleotide HOG-808 used to construct pMNC22, pMNC23, pMNC25
 CC and pMNC26 plasmids which are used in the invention.
 XX
 XX
 SQ Sequence 43 BP; 8 A; 10 C; 14 G; 11 T; 0 other;
 XX
 XX
 Query Match 2.6%; Score 41.4; DB 22; Length 43;
 Best Local Similarity 97.7%; Pred. No. 2.1e+02;
 Matches 42; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 XX
 OY 278 GCTTACAGACGATTATCCCAATGTGCGGAGAGACCCCTAG 320
 Db 43 GCTTACAGACGATTATCCCAATGTGCGGAGAGACCCCTAG 1
 XX
 XX
 RESULT 12
 ID AAD09076
 XX AAD09076 standard; DNA: 47 BP.
 AC
 XX AAD09076;
 AC
 XX
 DT 04-SEP-2001 (first entry)
 XX
 DE Human oligonucleotide HOG-797 used to construct pMNC26.
 XX
 XX
 KW Human; hedgehog protein; neurotropic; neuroprotective; anticonvulsant;
 KW cytoskeletal; therapy; Alzheimer's disease; Parkinson's disease; injury;
 KW Huntington's chorea; amyotrophic lateral sclerosis; multiple sclerosis;
 KW nervous system aging; neurodegenerative disease; immunological disease;
 KW malignant glioma; medulloblastoma; neuroectodermal tumour; cancer;
 KW extracellular signalling protein; HOG-797; ss.
 XX
 XX
 OS Homo sapiens.
 XX
 PN WO200134654-A1.
 XX
 PD 17-MAY-2001.
 XX
 PF 02-NOV-2000; 2000MO-US30405.
 XX
 PR 05-NOV-1999; 99US-0164025.
 XX
 XX
 PA (BIOJ) BIOGEN INC.

[illegible][illegible]

DR WPI; 2001-049927/06.
 XX Modified hedgehog protein, useful in the treatment of Parkinson's
 PT disease and Huntington's chorea, comprises a polymer containing a
 PT polyalkylene glycol group linked to any residue other than the
 PT N-terminal and lysine residues.
 PS Example 6; Page 77; 157pp; English.
 XX
 CC The invention relates to novel polymer conjugates of hedgehog proteins
 CC which have increased bioavailability. The hedgehog proteins are
 CC conjugated to a non-naturally-occurring polymer comprising a polyalkylene
 CC glycol group, with the proviso that the polymer is not conjugated to the
 CC N-terminus, or to lysine residues of the hedgehog protein. The hedgehog
 CC protein used in the conjugate may be a wild-type or mutant Sonic hedgehog
 CC (Shh), Indian hedgehog (Ihh) or Desert hedgehog (Dhh) protein, or may be
 CC a hedgehog fusion protein. The invention also relates to methods of
 CC defining and mapping functionally important regions of a protein by
 CC modifying accessible amino acid side chains, and determining the effect
 CC the position and/or type of modification have on the activity of the
 CC protein. The hedgehog polymer conjugates may be used in the management of
 CC various medical conditions including various neurological disorders,
 CC inflammatory and autoimmune diseases, and cancers. In particular, they
 CC may be used to prevent preventing or ameliorate neurodegenerative
 CC disorders (e.g., Parkinson's disease, Huntington's disease, Alzheimer's
 CC disease), age-associated neurological disease, neurological injury and
 CC trauma, immunological diseases of the nervous system (e.g., multiple
 CC sclerosis), stroke, and malignant gliomas, medulloblastomas and
 CC neuroectodermal tumours. The modifications made to the hedgehog protein
 CC may result in increased half-life, altered tissue distribution (such as
 CC an improved ability to stay in the vasculature for longer periods of
 CC time), increased stability in solution, protection from proteolytic
 CC degradation, or reduced immunogenicity. In particular, the ability to
 CC remain in the vasculature for prolonged periods may allow a hedgehog
 CC protein of the invention to cross the blood-brain barrier, and an
 CC increased thermal stability would be an advantage when formulating the
 CC hedgehog protein in powder form. The present sequence represents a
 CC human Sonic hedgehog mutagenic primer used in an exemplification of the
 CC invention.
 XX
 SO Sequence 42 BP; 8 A; 13 C; 9 G; 12 T; 0 other;
 Query Match 2.4%; Score 37.2; DB 22; Length 42;
 Best Local Similarity 92.9%; Pred. No. 1e+03; Mismatches 39; Conservative 0; Indels 3; Gaps 0;
 Db 338 GAAGGGAAGATCTCCAGAACTCCGAGCGATTAAAGAACTC 379
 42 GAAGGGAAGATCTCCAGCGCTCCGAGCGATTAAAGAACTC 1
 RESULT 15
 AAF27036/C
 ID AAF27036 standard; DNA: 42 BP.
 XX
 AC AAF27036;
 DT 30-MAR-2001 (first entry)
 XX
 DE Human Sonic hedgehog (Shh) mutagenic primer, SEQ ID NO:40.
 KW Sonic hedgehog; Shh; polymer conjugate; polyalkylene glycol group;
 KW bioavailability; formulation; neurological disorder;
 KW inflammatory disorder; autoimmune disorder; cancer;
 KW neurodegenerative disorder; Parkinson's disease; Huntington's disease;
 KW Alzheimer's disease; neurological injury; stroke; multiple sclerosis;
 KW malignant glioma; medulloblastoma; neuroectodermal tumour;
 KW mutagenic primer; ss.
 XX
 XX Homo sapiens.
 OS Synthetic.
 DE
 PN WO200073337-A1.

XX
 PD 07-DEC-2000.
 XX
 PF 26-MAY-2000; 2000MO-US14741.
 XX
 PR 01-JUN-1999; 99US-0137011.
 PR 13-AUG-1999; 99US-0149016.
 XX
 PA (BIOJ) BIOGEN INC.
 XX
 PI Pepinsky RB, Taylor F, Garber E;
 DR WPI; 2001-049927/06.
 XX
 CC Modified hedgehog protein, useful in the treatment of Parkinson's
 CC disease and Huntington's chorea, comprises a polymer containing a
 CC polyalkylene glycol group linked to any residue other than the
 CC N-terminal and lysine residues.
 PS Example 6; Page 77; 157pp; English.
 XX
 CC The invention relates to novel polymer conjugates of hedgehog proteins
 CC which have increased bioavailability. The hedgehog proteins are
 CC conjugated to a non-naturally-occurring polymer comprising a polyalkylene
 CC glycol group, with the proviso that the polymer is not conjugated to the
 CC N-terminus, or to lysine residues of the hedgehog protein. The hedgehog
 CC protein used in the conjugate may be a wild-type or mutant Sonic hedgehog
 CC (Shh), Indian hedgehog (Ihh) or Desert hedgehog (Dhh) protein, or may be
 CC a hedgehog fusion protein. The invention also relates to methods of
 CC defining and mapping functionally important regions of a protein by
 CC modifying accessible amino acid side chains, and determining the effect
 CC the position and/or type of modification have on the activity of the
 CC protein. The hedgehog polymer conjugates may be used in the management of
 CC various medical conditions including various neurological disorders,
 CC inflammatory and autoimmune diseases, and cancers. In particular, they
 CC may be used to prevent preventing or ameliorate neurodegenerative
 CC disorders (e.g., Parkinson's disease, Huntington's disease, Alzheimer's
 CC disease), age-associated neurological disease, neurological injury and
 CC trauma, immunological diseases of the nervous system (e.g., multiple
 CC sclerosis), stroke, and malignant gliomas, medulloblastomas and
 CC neuroectodermal tumours. The modifications made to the hedgehog protein
 CC may result in increased half-life, altered tissue distribution (such as
 CC an improved ability to stay in the vasculature for longer periods of
 CC time), increased stability in solution, protection from proteolytic
 CC degradation, or reduced immunogenicity. In particular, the ability to
 CC remain in the vasculature for prolonged periods may allow a hedgehog
 CC protein of the invention to cross the blood-brain barrier, and an
 CC increased thermal stability would be an advantage when formulating the
 CC hedgehog protein in powder form. The present sequence represents a
 CC human Sonic hedgehog mutagenic primer used in an exemplification of the
 CC invention.
 XX
 SO Sequence 42 BP; 11 A; 14 C; 9 G; 8 T; 0 other;
 Query Match 2.4%; Score 37.2; DB 22; Length 42;
 Best Local Similarity 92.9%; Pred. No. 1e+03; Mismatches 39; Conservative 0; Indels 3; Gaps 0;
 Db 474 CTTGGCCATCTCGTGATGACACAGTCGCGAGTGAAC 515
 42 CTTGGCCATCTCGTGATGTGTACAGTCGCGAGTGAAC 1
 RESULT 16
 AAF27039/C
 ID AAF27039 standard; DNA: 38 BP.
 XX
 AC AAF27039;
 DT 30-MAR-2001 (first entry)
 XX
 DE Human Sonic hedgehog (Shh) mutagenic primer, SEQ ID NO:43.
 XX

KM Sonic hedgehog; Shh: polymer conjugate; polyalkene glycol group;
 KM bioavailability; formulation; neurological disorder;
 KM inflammatory disorder; autoimmune disorder; cancer;
 KM neurodegenerative disorder; Parkinson's disease; Huntington's disease;
 KM Alzheimer's disease; neurological injury; stroke; multiple sclerosis;
 KM malignant glioma; medulloblastoma; neuroectodermal tumour;
 KM mutagenic primer; ss.
 XX
 OS Homo sapiens.
 OS Synthetic.
 XX
 PN WO200073337-A1.
 XX
 PD 07-DEC-2000.
 XX
 PF 26-MAY-2000; 2000WO-US14741.
 XX
 PR 01-JUN-1999; 99US-0137011.
 PR 13-AUG-1999; 99US-0149016.
 XX
 PA (BIOJ) BIOGEN INC.
 PI Peplinsky RB, Taylor F, Garber E;
 DR WPI; 2001-049927/06.
 XX
 PT Modified hedgehog protein, useful in the treatment of Parkinson's
 PT disease and Huntington's chorea, comprises a polymer containing a
 PT polyalkylene glycol group linked to any residue other than the
 PT N-terminal and lysine residues -
 XX
 PS Example 6; Page 77; 157pp; English.
 XX
 CC The invention relates to novel polymer conjugates of hedgehog proteins
 CC which have increased bioavailability. The hedgehog proteins are
 CC conjugated to a non-naturally-occurring polymer comprising a polyalkylene
 CC glycol group, with the proviso that the polymer is not conjugated to the
 CC N-terminus, or to lysine residues of the hedgehog protein. The hedgehog
 CC protein used in the conjugate may be a wild-type or mutant Sonic hedgehog
 CC (Shh), Indian hedgehog (Ihh) or Desert hedgehog (Dhh) protein, or may be
 CC a hedgehog fusion protein. The invention also relates to methods of
 CC defining and mapping functionally important regions of a protein by
 CC modifying accessible amino acid side chains, and determining the effect
 CC the position and/or type of modification have on the activity of the
 CC protein. The hedgehog polymer conjugates may be used in the management of
 CC various medical conditions including various neurological disorders,
 CC inflammatory and autoimmune diseases, and cancers. In particular, they
 CC may be used to prevent preventing or ameliorate neurodegenerative
 CC disorders (e.g., Parkinson's disease, Huntington's disease, Alzheimer's
 CC disease), age-associated neurological disease; neurological injury and
 CC trauma; immunological diseases of the nervous system (e.g., multiple
 CC sclerosis); stroke; and malignant gliomas, medulloblastomas and
 CC neuroectodermal tumours. The modifications made to the hedgehog protein
 CC may result in increased half-life, altered tissue distribution (such as
 CC an improved ability to stay in the vasculature for longer periods of
 CC time), increased stability in solution, protection from proteolytic
 CC degradation, or reduced immunogenicity. In particular, the ability to
 CC remain in the vasculature for prolonged periods may allow a hedgehog
 CC protein of the invention to cross the blood-brain barrier, and an
 CC increased thermal stability would be an advantage when formulating the
 CC hedgehog protein in powder form. The present sequence represents a
 CC human Sonic hedgehog mutagenic primer used in an exemplification of the
 CC invention.
 CC
 XX
 SQ Sequence 38 BP; 8 A; 11 C; 9 G; 10 T; 0 other;
 Query Match 2.3%; Score 36.4; DB 22; Length 38;
 Best Local Similarity 97.4%; Pred. No. 1.4e+03;
 Matches 37; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 662 GACTGGGTGTTACTACGAGTCGACGACATATCCACTG 699
 38 GACTGGGTGTTACTACGAGTCGACGACATATCCACTG 1

RESULT 17
 AAF27025/C
 ID AAF27025 standard; DNA; 49 BP.
 XX
 AC AAF27025;
 XX
 DT 30-MAR-2001 (first entry)
 XX
 DE Human Sonic hedgehog (Shh) mutagenic primer, SEQ ID NO:29.
 XX
 KM Sonic hedgehog; Shh: polymer conjugate; polyalkene glycol group;
 KM bioavailability; formulation; neurological disorder;
 KM inflammatory disorder; autoimmune disorder; cancer;
 KM neurodegenerative disorder; Parkinson's disease; Huntington's disease;
 KM Alzheimer's disease; neurological injury; stroke; multiple sclerosis;
 KM malignant glioma; medulloblastoma; neuroectodermal tumour;
 KM mutagenic primer; ss.
 XX
 OS Homo sapiens.
 OS Synthetic.
 XX
 PN WO200073337-A1.
 XX
 PD 07-DEC-2000.
 XX
 PF 26-MAY-2000; 2000WO-US14741.
 XX
 PR 01-JUN-1999; 99US-0137011.
 PR 13-AUG-1999; 99US-0149016.
 XX
 PA (BIOJ) BIOGEN INC.
 PI Peplinsky RB, Taylor F, Garber E;
 DR WPI; 2001-049927/06.
 XX
 PT Modified hedgehog protein, useful in the treatment of Parkinson's
 PT disease and Huntington's chorea, comprises a polymer containing a
 PT polyalkylene glycol group linked to any residue other than the
 PT N-terminal and lysine residues -
 XX
 PS Example 2; Page 67; 157pp; English.
 XX
 CC The invention relates to novel polymer conjugates of hedgehog proteins
 CC which have increased bioavailability. The hedgehog proteins are
 CC conjugated to a non-naturally-occurring polymer comprising a polyalkylene
 CC glycol group, with the proviso that the polymer is not conjugated to the
 CC N-terminus, or to lysine residues of the hedgehog protein. The hedgehog
 CC protein used in the conjugate may be a wild-type or mutant Sonic hedgehog
 CC (Shh), Indian hedgehog (Ihh) or Desert hedgehog (Dhh) protein, or may be
 CC a hedgehog fusion protein. The invention also relates to methods of
 CC defining and mapping functionally important regions of a protein by
 CC modifying accessible amino acid side chains, and determining the effect
 CC the position and/or type of modification have on the activity of the
 CC protein. The hedgehog polymer conjugates may be used in the management of
 CC various medical conditions including various neurological disorders,
 CC inflammatory and autoimmune diseases, and cancers. In particular, they
 CC may be used to prevent preventing or ameliorate neurodegenerative
 CC disorders (e.g., Parkinson's disease, Huntington's disease, Alzheimer's
 CC disease), age-associated neurological disease; neurological injury and
 CC trauma; immunological diseases of the nervous system (e.g., multiple
 CC sclerosis); stroke; and malignant gliomas, medulloblastomas and
 CC neuroectodermal tumours. The modifications made to the hedgehog protein
 CC may result in increased half-life, altered tissue distribution (such as
 CC an improved ability to stay in the vasculature for longer periods of
 CC time), increased stability in solution, protection from proteolytic
 CC degradation, or reduced immunogenicity. In particular, the ability to
 CC remain in the vasculature for prolonged periods may allow a hedgehog
 CC protein of the invention to cross the blood-brain barrier, and an
 CC increased thermal stability would be an advantage when formulating the
 CC hedgehog protein in powder form. The present sequence represents a

CC human Sonic hedgehog mutagenic primer used in an exemplification of the
 CC invention.
 CC
 CC Sequence 49 BP; 8 A; 18 C; 9 G; 14 T; 0 other:
 CC
 CC Query Match 2.3%; Score 36; DB 22; Length 49;
 CC Best Local Similarity 88.6%; Pred. No. 1.7e+03;
 CC Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
 CC
 CC Db 703 GGTGAAGCAGAACTCGTGGCGCCAAATGCGGAGCTGCT 746
 CC |
 CC 49 GGTGAAGCAGAACTCGTGGCGCCAAATGCGGAGCTGAT 6
 CC
 CC RESULT 18
 CC AAF27038/C
 CC ID AAF27038 standard; DNA; 39 BP.
 CC
 CC AC AAF27038;
 CC
 CC DT 30-MAR-2001 (first entry)
 CC
 CC DE Human Sonic hedgehog (Shh) mutagenic primer, SEQ ID NO:42.
 CC
 CC KW Sonic hedgehog; Shh; polymer conjugate; polyalkene glycol group;
 CC bioavailability; formulation; neurological disorder;
 CC inflammatory disorder; autoimmune disorder; cancer;
 CC neurodegenerative disorder; Parkinson's disease; Huntington's disease;
 CC Alzheimer's disease; neurological injury; stroke; multiple sclerosis;
 CC malignant glioma; medulloblastoma; neuroectodermal tumour;
 CC mutagenic primer; ss.
 CC
 CC OS Homo sapiens.
 CC Synthetic.
 CC
 CC PN WO200073337-A1.
 CC
 CC PD 07-DEC-2000.
 CC
 CC PF 26-MAY-2000; 2000WO-US14741.
 CC
 CC PR 01-JUN-1999; 99US-0137011.
 CC PR 13-AUG-1999; 99US-0149016.
 CC
 CC PA (BIOI) BIOGEN INC.
 CC
 CC PI Pepinsky RB, Taylor F, Garber E;
 CC WPI; 2001-049927/06.
 CC
 CC DR Modified hedgehog protein, useful in the treatment of Parkinson's
 CC disease and Huntington's chorea, comprises a polymer containing a
 CC polyalkylene glycol group linked to any residue other than the
 CC N-terminal and lysine residues -
 CC
 CC PS Example 6; Page 77; 157pp; English.
 CC
 CC XX The invention relates to novel polymer conjugates of hedgehog proteins
 CC which have increased bioavailability. The hedgehog comprising a polyalkylene
 CC glycol group, with the proviso that the polymer is not conjugated to the
 CC N-terminus, or to lysine residues of the hedgehog protein. The hedgehog
 CC protein used in the conjugate may be a wild-type or mutant Sonic hedgehog
 CC (Shh), Indian hedgehog (Ihh) or Desert hedgehog (Dhh) protein, or may be
 CC a hedgehog fusion protein. The invention also relates to methods of
 CC defining and mapping functionally important regions of a protein by
 CC modifying accessible amino acid side chains, and determining the effect
 CC the position and/or type of modification have on the activity of the
 CC protein. The hedgehog polymer conjugates may be used in the management of
 CC various medical conditions including various neurological disorders,
 CC inflammatory and autoimmune diseases, and cancers. In particular, they
 CC may be used to prevent preventing or ameliorate neurodegenerative
 CC disorders (e.g., Parkinson's disease, Huntington's disease, Alzheimer's

CC disease); age-associated neurological disease; neurological injury and
 CC trauma; immunological diseases of the nervous system (e.g., multiple
 CC sclerosis); stroke; and malignant gliomas, medulloblastomas and
 CC neuroectodermal tumours. The modifications made to the hedgehog protein
 CC may result in increased half-life, altered tissue distribution (such as
 CC an improved ability to stay in the vasculature for longer periods of
 CC time), increased stability in solution, protection from proteolytic
 CC degradation, or reduced immunogenicity. In particular, the ability to
 CC remain in the vasculature for prolonged periods may allow a hedgehog
 CC protein of the invention to cross the blood-brain barrier, and an
 CC increased thermal stability would be an advantage when formulating the
 CC hedgehog protein in powder form. The present sequence represents a
 CC human Sonic hedgehog mutagenic primer used in an exemplification of the
 CC invention.
 CC
 CC SO Sequence 39 BP; 7 A; 12 C; 13 G; 7 T; 0 other;
 CC
 CC Query Match 2.3%; Score 35.8; DB 22; Length 39;
 CC Best Local Similarity 94.9%; Pred. No. 1.8e+03;
 CC Matches 37; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 CC
 CC Db 597 CCACGCTGACCGCGCAGCAGTACGCGATGCTGG 635
 CC |
 CC 39 CCACGCTGACCGCGCAGTACGCGATGCTGG 1
 CC
 CC RESULT 19
 CC AAF27035/C
 CC ID AAF27035 standard; DNA; 42 BP.
 CC
 CC AC AAF27035;
 CC
 CC DT 30-MAR-2001 (first entry)
 CC
 CC DE Human Sonic hedgehog (Shh) mutagenic primer, SEQ ID NO:39.
 CC
 CC KW Sonic hedgehog; Shh; polymer conjugate; polyalkene glycol group;
 CC bioavailability; formulation; neurological disorder;
 CC inflammatory disorder; autoimmune disorder; cancer;
 CC neurodegenerative disorder; Parkinson's disease; Huntington's disease;
 CC Alzheimer's disease; neurological injury; stroke; multiple sclerosis;
 CC malignant glioma; medulloblastoma; neuroectodermal tumour;
 CC mutagenic primer; ss.
 CC
 CC OS Homo sapiens.
 CC Synthetic.
 CC
 CC PN WO200073337-A1.
 CC
 CC PD 07-DEC-2000.
 CC
 CC PF 26-MAY-2000; 2000WO-US14741.
 CC
 CC PR 01-JUN-1999; 99US-0137011.
 CC PR 13-AUG-1999; 99US-0149016.
 CC
 CC PA (BIOI) BIOGEN INC.
 CC
 CC PI Pepinsky RB, Taylor F, Garber E;
 CC WPI; 2001-049927/06.
 CC
 CC DR Modified hedgehog protein, useful in the treatment of Parkinson's
 CC disease and Huntington's chorea, comprises a polymer containing a
 CC polyalkylene glycol group linked to any residue other than the
 CC N-terminal and lysine residues -
 CC
 CC PS Example 6; Page 77; 157pp; English.
 CC
 CC XX The invention relates to novel polymer conjugates of hedgehog proteins
 CC which have increased bioavailability. The hedgehog proteins are
 CC conjugated to a non-naturally-occurring polymer comprising a polyalkylene
 CC glycol group, with the proviso that the polymer is not conjugated to the

PD 07-DEC-2000.
 XX
 PF 26-MAY-2000; 2000WO-US14741.
 XX
 PR 01-JUN-1999; 99US-0137011.
 PR 13-AUG-1999; 99US-0149016.
 XX
 PA (BIOJ) BIOGEN INC.
 XX
 PI Pepinsky RB, Taylor F, Garber E;
 XX
 DR WPI: 2001-049927/06.
 XX
 PT Modified hedgehog protein, useful in the treatment of Parkinson's
 PT disease and Huntington's chorea, comprises a polymer containing a
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 PT N-terminal and lysine residues -
 XX
 PS Example 6; Page 77; 157pp; English.
 CC The invention relates to novel polymer conjugates of hedgehog proteins
 CC which have increased bioavailability. The hedgehog proteins are
 CC conjugated to a non-naturally-occurring polymer comprising a polyalkylene
 CC glycol group, with the proviso that the polymer is not conjugated to the
 CC N-terminus, or to lysine residues of the hedgehog protein. The hedgehog
 CC protein used in the conjugate may be a wild-type or mutant Sonic hedgehog
 CC (Shh), Indian hedgehog (Ihh) or Desert hedgehog (Dhh) protein, or may be
 CC a hedgehog fusion protein. The invention also relates to methods of
 CC defining and mapping functionally important regions of a protein by
 CC modifying accessible amino acid side chains, and determining the effect
 CC the position and/or type of modification have on the activity of the
 CC protein. The hedgehog polymer conjugates may be used in the management of
 CC various medical conditions including various neurological disorders,
 CC inflammatory and autoimmune diseases, and cancers. In particular, they
 CC may be used to prevent preventing or ameliorate neurodegenerative
 CC disorders (e.g., Parkinson's disease, Huntington's disease, Alzheimer's
 CC disease); age-associated neurological disease; neurological injury and
 CC trauma; immunological diseases of the nervous system (e.g., multiple
 CC sclerosis); stroke; and malignant gliomas, medulloblastomas and
 CC neuroectodermal tumours. The modifications made to the hedgehog protein
 CC may result in increased half-life, altered tissue distribution (such as
 CC an improved ability to stay in the vasculature for longer periods of
 CC time), increased stability in solution, protection from proteolytic
 CC degradation, or reduced immunogenicity. In particular, the ability to
 CC remain in the vasculature for prolonged periods may allow a hedgehog
 CC protein of the invention to cross the blood-brain barrier, and an
 CC increased thermal stability would be an advantage when formulating the
 CC hedgehog protein in powder form. The present sequence represents a
 CC human Sonic hedgehog mutagenic primer used in an exemplification of the
 CC invention.
 XX
 SO Sequence 35 BP; 8 A; 15 C; 9 G; 3 T; 0 other;
 Query Match 2.1%; Score 33.4; DB 22; Length 35;
 Best Local Similarity 97.1%; Pred. No. 4.6e+03;
 Matches 34; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 OY 639 GCCTGGCGGTGGAGGCGGCTTCGACGTGGGTAC 673
 DB 35 GCCTGGCGGTGGAGGCGGCTTCGACGTGGGTAC 1
 RESULT 22
 AAF27040/c
 ID AAF27040 standard; DNA; 37 BP.
 XX
 AC AAF27040;
 XX
 DT 30-MAR-2001 (first entry)
 XX
 DE Human Sonic hedgehog (Shh) mutagenic primer, SEQ ID NO:44.
 XX
 KW Sonic hedgehog; Shh; polymer conjugate; polyalkylene glycol group;

KW bioavailability; formulation; neurological disorder;
 KW inflammatory disorder; autoimmune disorder; cancer;
 KW neurodegenerative disorder; Parkinson's disease; Huntington's disease;
 KW Alzheimer's disease; neurological injury; stroke; multiple sclerosis;
 KW malignant glioma; medulloblastoma; neuroectodermal tumour;
 KW mutagenic primer; ss.
 XX
 OS Homo sapiens.
 OS Synthetic.
 XX
 PN WO200073337-A1.
 XX
 PD 07-DEC-2000.
 XX
 PF 26-MAY-2000; 2000WO-US14741.
 XX
 PR 01-JUN-1999; 99US-0137011.
 PR 13-AUG-1999; 99US-0149016.
 XX
 PA (BIOJ) BIOGEN INC.
 XX
 PI Pepinsky RB, Taylor F, Garber E;
 XX
 DR WPI: 2001-049927/06.
 XX
 PT Modified hedgehog protein, useful in the treatment of Parkinson's
 PT disease and Huntington's chorea, comprises a polymer containing a
 PT polyalkylene glycol group linked to any residue other than the
 PT N-terminal and lysine residues -
 XX
 PS Example 6; Page 77; 157pp; English.
 CC The invention relates to novel polymer conjugates of hedgehog proteins
 CC which have increased bioavailability. The hedgehog proteins are
 CC conjugated to a non-naturally-occurring polymer comprising a polyalkylene
 CC glycol group, with the proviso that the polymer is not conjugated to the
 CC N-terminus, or to lysine residues of the hedgehog protein. The hedgehog
 CC protein used in the conjugate may be a wild-type or mutant Sonic hedgehog
 CC (Shh), Indian hedgehog (Ihh) or Desert hedgehog (Dhh) protein, or may be
 CC a hedgehog fusion protein. The invention also relates to methods of
 CC defining and mapping functionally important regions of a protein by
 CC modifying accessible amino acid side chains, and determining the effect
 CC the position and/or type of modification have on the activity of the
 CC protein. The hedgehog polymer conjugates may be used in the management of
 CC various medical conditions including various neurological disorders,
 CC inflammatory and autoimmune diseases, and cancers. In particular, they
 CC may be used to prevent preventing or ameliorate neurodegenerative
 CC disorders (e.g., Parkinson's disease, Huntington's disease, Alzheimer's
 CC disease); age-associated neurological disease; neurological injury and
 CC trauma; immunological diseases of the nervous system (e.g., multiple
 CC sclerosis); stroke; and malignant gliomas, medulloblastomas and
 CC neuroectodermal tumours. The modifications made to the hedgehog protein
 CC may result in increased half-life, altered tissue distribution (such as
 CC an improved ability to stay in the vasculature for longer periods of
 CC time), increased stability in solution, protection from proteolytic
 CC degradation, or reduced immunogenicity. In particular, the ability to
 CC remain in the vasculature for prolonged periods may allow a hedgehog
 CC protein of the invention to cross the blood-brain barrier, and an
 CC increased thermal stability would be an advantage when formulating the
 CC hedgehog protein in powder form. The present sequence represents a
 CC human Sonic hedgehog mutagenic primer used in an exemplification of the
 CC invention.
 XX
 SO Sequence 37 BP; 7 A; 8 C; 13 G; 9 T; 0 other;
 Query Match 2.0%; Score 32.2; DB 22; Length 37;
 Best Local Similarity 91.9%; Pred. No. 7.2e+03;
 Matches 34; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 OY 538 CGAAGATGGCCACCACTGAGAGAGCTCTGCACTAC 574
 DB 37 CGAAGATGGCCACCACTGAGAGCTCTGCACTAC 1

RESULT 23
ABT03768/C
ID ABT03768 standard; DNA; 27 BP.
XX
XX
AC ABT03768;
XX
XX
DT 13-SEP-2002 (first entry)
XX
XX
DE Human SHH gene PCR primer SEQ ID NO: 289.
XX
XX
KW Human; cancer; neoplastic disease; tumour specific marker; cytostatic;
KW transcription factor; PCR; primer; ss.
XX
OS Homo sapiens.
XX
PN WO200240716-A2.
XX
XX
PD 23-MAY-2002.
XX
XX
PF 13-NOV-2001; 2001WO-US43461.
XX
XX
PR 16-NOV-2000; 2000US-249508P.
XX
XX
PA (CEMT-) CEMINES LLC.
XX
PI Palm K;
XX
DR WPI; 2002-537346/57.
XX
XX
PT Determining the presence of neoplastic molecular markers, by
PT identifying the presence of markers in host test sample using array of
PT neoplastic molecular marker specific reagents and analyzing the array
PT of the reagents -
XX
XX
PS Example 1; Page 19; 41pp; English.
XX
XX
CC The present invention relates to a method for determining the presence of
CC neoplastic molecular markers in a host, involving the use of neoplastic
CC molecular marker specific reagents to detect such markers and analysing
CC the array of reagents, allowing the identification of the neoplastic
CC disease present. This can be used to determine the best treatment for
CC cancers, in particular neural cell, lung and prostate tumours. The
CC present sequence is a PCR primer useful for detecting the coding
CC sequences of markers of the invention.
XX
XX
SQ Sequence 27 BP; 3 A; 11 C; 9 G; 4 T; 0 other;
XX
XX
Query Match 1.7%; Score 27; DB 24; Length 27;
Best Local Similarity 100.0%; Pred. No. 5.4e+04; Mismatches 0; Gaps 0;
Matches 27; Conservative 0; Indels 0; Indels 0;

QY 755 TCGGCCACGCGTGCACCTGGAGCAGGC 781
DB 27 TCGGCCACGCGTGCACCTGGAGCAGGC 1

RESULT 24
AAQ33571
ID AAQ33571 standard; DNA; 46 BP.
XX
XX
AC AAQ33571;
XX
XX
DT 02-FEB-1993 (first entry)
XX
XX
DE Microsatellite sequence from clone AGUA259.
XX
XX
KW PCR; selection; primers; OPTIPRIM; breeding; cattle; parentage;
KW genetic mapping; traits; amplification; ss.
XX
XX
OS Bos taurus.
XX
PN WO9213102-A.

XX
PD 06-AUG-1992.
XX
XX
PF 15-JAN-1992; 92WO-US00340.
XX
XX
PR 15-JAN-1991; 91US-0642342.
XX
XX
PA (GENM-) GENMARK.
XX
XX
PI Georges M, Massey JM;
XX
DR WPI; 1992-284684/34.
XX
XX
PT Polymorphic bovine DNA markers - used in genetic identification,
PT gene mapping, and selective breeding
XX
XX
PS Table 7; Page 157; 517pp; English.
XX
XX
CC The sequence is that of a bovine microsatellite sequence obtd. by
CC screening a library of bovine MboI DNA fragments of between
CC 250 and 500 bp with an (AC)₁₅ and a (TC)₁₅ oligonucleotide probe.
CC One out of 50 clones cross-hybridised. Assuming independent
CC distribution of microsatellites in the bovine genome is estimated at >100,
CC (T₆)_n >9 microsatellites in the bovine genome is estimated at >100,
CC 000. The sequence information for ca. 230 such bovine microsatellites
CC is summarised in the specification and indexed herein (see below).
CC The sequences upstream and downstream of the microsatellite sequence
CC were used to generate the required PCR primers for in vitro
CC amplification of the corresp. microsatellite (using the program
CC OPTIPRIM). The microsatellites may be used to identify individuals,
CC for parentage testing, and in the genetic mapping of economically important
CC loci, or genes involved in the determination of economically important
CC traits esp. in cattle, to allow selective breeding.
XX
XX
SQ See also AAQ33501-34437.
XX
XX
Query Match 1.7%; Score 26.8; DB 13; Length 46;
Best Local Similarity 73.9%; Pred. No. 5.8e+04; Mismatches 12; Indels 0;
Matches 34; Conservative 0; Mismatches 12; Indels 0;

QY 24 AGGAGCGGCGAGCCGAGAGGAGGAAAGCGGAGAGAG 69
DB 1 AGAGAGAGGAGAGCGGAGAGCGGAGAGAGAGAGAGAGAG 46

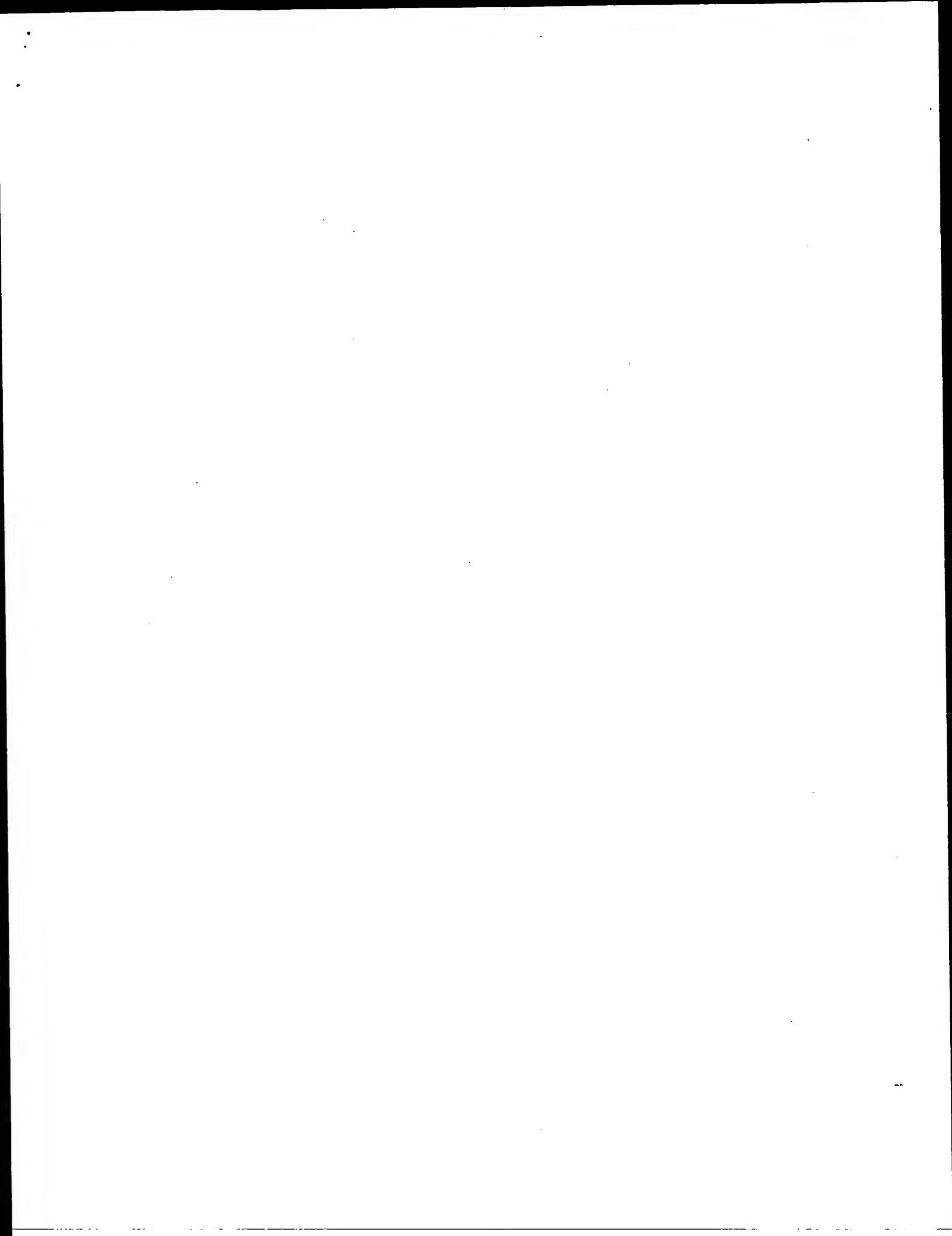
RESULT 25
AAF60024
ID AAF60024 standard; DNA; 45 BP.
XX
XX
AC AAF60024;
XX
XX
DT 26-APR-2001 (first entry)
XX
XX
DE DNA linker.
XX
XX
KW Antibody; sperm; S19; contraception; ss.
XX
XX
OS Synthetic.
XX
XX
PN WO200107083-A1.
XX
XX
PD 01-FEB-2001.
XX
XX
PF 21-JUL-2000; 2000WO-US19843.
XX
XX
PR 23-JUL-1999; 99US-0145512.
XX
XX
PA (UYVI-) UNIV VIRGINIA PATENT FOUND.
XX
XX
PI Herr JC, Norton EJ, Diekman AB;
XX
DR WPI; 2001-182730/18.

PS Disclosure; Page 43; 48pp; English.
XX

Sequence 45 BP; 2 A; 10 C; 27 G; 6 T; 0 other;

Dy 1341 CGGCGGGACACAGCGGGCCGGGACCAGCGGGCGGCAGC 1384
|||||
Dd 2 GCGGCGGCGCACGCGGTCTTCTGCGGCGGCGGCAGC 45

Search completed: March 13, 2003, 21:59:12
Job time : 426 secs



GenCore version 5.1.4.P5_4578
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OM nucleic - nucleic search, using sw model

Run on: March 13, 2003, 21:52:28 ; Search time 72 Seconds
(Without alignments) 6712.814 Million cell updates/sec

Title: US-10-001-844-3

Perfect score: 1576

Sequence: 1 gcgagcgacccagcgagga.....gagggcgcgagggagggcc 1576

Scoring table: IDENTITY_NIC

Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 15338381 residues

Total number of hits satisfying chosen parameters: 609818

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database :

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2: /cgn2_6/ptodata/1/lna/5B.COMB.seq:*
3: /cgn2_6/ptodata/1/lna/5A.COMB.seq:*
4: /cgn2_6/ptodata/1/lna/5B.COMB.seq:*
5: /cgn2_6/ptodata/1/lna/PCITUS.COMB.seq:*
6: /cgn2_6/ptodata/1/lna/Backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	36	2.3	49	4	US-09-325-256-31
2	28.2	1.8	50	4	US-09-930-181-14
3	26	1.6	50	4	US-09-580-923-35
4	25	1.6	33	1	US-08-068-747-7
5	24.6	1.6	50	3	US-08-846-020A-6
6	24	1.6	50	4	US-09-617-871-6
7	24	1.5	24	1	US-08-748-591-11
8	24	1.5	24	2	US-08-356-060A-43
9	24	1.5	24	4	US-08-460-900C-43
10	24	1.5	24	4	US-08-674-509B-43
11	24	1.5	24	4	US-08-954-698-43
12	24	1.5	24	4	US-08-957-874-43
13	24	1.5	45	1	US-08-258-026A-13
14	24	1.5	45	4	US-09-813-781-129
15	24	1.5	45	5	PCT-US95-07541-13
16	23.6	1.5	38	4	US-08-068-747-2
17	23.6	1.5	38	4	US-09-499-884-12
18	23.6	1.5	48	4	US-09-497-933A-19
19	23.6	1.5	50	4	US-09-930-181-13
20	23.6	1.5	25	1	US-08-748-591-12
21	22.4	1.4	32	4	US-09-083-123-5
22	22	1.4	47	1	US-09-325-256-30
23	21.8	1.4	35	1	US-08-340-045-7
24	21.8	1.4	35	4	US-08-871-302A-7
25	21.6	1.4	40	3	US-09-465-737B-5
26	21.4	1.4	31	4	US-09-083-123-4
27	21.4	1.4	50	4	US-09-165-264-4

28	21.2	1.3	49	4	US-09-183-866-7	Sequence 7, Appli
29	21	1.3	47	4	US-09-641-638-935	Sequence 935, App
30	21	1.3	47	4	US-09-641-638-1096	Sequence 1096, App
C 31	21	1.3	50	1	US-08-171-389-374	Sequence 374, App
C 32	21	1.3	50	1	US-08-171-389-374	Sequence 374, App
C 33	21	1.3	50	2	US-08-475-228A-374	Sequence 374, App
C 34	21	1.3	50	3	US-08-482-080A-374	Sequence 374, App
C 35	21	1.3	50	2	US-09-354-947-374	Sequence 374, App
C 36	21	1.3	50	5	PCT-US93-12388-374	Sequence 374, App
C 37	20.8	1.3	47	4	US-09-641-638-934	Sequence 934, App
C 38	20.8	1.3	49	4	US-08-478-097A-33	Sequence 33, Appli
C 39	20.8	1.3	49	4	US-09-538-709-1159	Sequence 1159, Ap
C 40	20.6	1.3	45	1	US-07-885-689A-2	Sequence 2, Appli
C 41	20.6	1.3	45	4	US-08-487-761-1	Sequence 1, Appli
C 42	20.6	1.3	45	4	US-09-497-933A-22	Sequence 22, Appli
C 43	20.6	1.3	48	2	US-08-750-933A-2	Sequence 2, Appli
C 44	20.4	1.3	30	4	US-09-083-123-2	Sequence 2, Appli
C 45	20.4	1.3	30	4	US-09-083-123-8	Sequence 8, Appli
C 46	20.4	1.3	40	4	US-09-677-045-10	Sequence 10, Appli
C 47	20.4	1.3	41	3	US-08-930-589A-14	Sequence 14, Appli
C 48	20.4	1.3	41	4	US-09-599-781-14	Sequence 14, Appli
C 49	20.4	1.3	44	3	US-08-846-020A-5	Sequence 5, Appli
C 50	20.4	1.3	44	4	US-09-617-871-5	Sequence 5, Appli
C 51	20.4	1.3	47	5	PCT-US95-04439-7	Sequence 7, Appli
C 52	20.4	1.3	49	4	US-09-538-709-1141	Sequence 1141, Ap
C 53	20.4	1.3	50	4	US-09-165-264-3	Sequence 3, Appli
C 54	20.2	1.3	42	4	US-09-162-484-7	Sequence 7, Appli
C 55	20.2	1.3	46	1	US-08-171-389-85	Sequence 85, Appli
C 56	20.2	1.3	46	1	US-08-123-936-85	Sequence 85, Appli
C 57	20.2	1.3	46	2	US-08-475-228A-85	Sequence 85, Appli
C 58	20.2	1.3	46	3	US-08-482-080A-85	Sequence 85, Appli
C 59	20.2	1.3	46	4	US-09-354-947-85	Sequence 85, Appli
C 60	20.2	1.3	46	5	PCT-US93-12388-85	Sequence 85, Appli
C 61	20.2	1.3	47	2	US-08-975-902-48	Sequence 48, Appli
C 62	20.2	1.3	47	3	US-09-251-565-48	Sequence 48, Appli
C 63	20.2	1.3	48	4	US-09-198-956-26	Sequence 26, Appli
C 64	20.2	1.3	48	4	US-09-198-956A-32	Sequence 32, Appli
C 65	20.2	1.3	48	4	US-09-694-531-32	Sequence 32, Appli
C 66	20.2	1.3	48	4	US-09-670-141-26	Sequence 26, Appli
C 67	20.2	1.3	42	3	US-08-448-619-4	Sequence 4, Appli
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C 69	20	1.3	45	1	US-08-167-939A-14	Sequence 14, Appli
C 70	20	1.3	45	1	US-08-567-538-14	Sequence 14, Appli
C 71	20	1.3	45	1	US-09-561-490E-35	Sequence 35, Appli
C 72	20	1.3	50	1	US-08-672-571A-13	Sequence 13, Appli
C 73	19.6	1.2	42	4	US-08-933-219B-20	Sequence 20, Appli
C 74	19.6	1.2	42	4	US-09-321-481-20	Sequence 20, Appli
C 75	19.6	1.2	33	1	US-07-972-032-75	Sequence 75, Appli
C 76	19.4	1.2	33	1	US-07-723-002C-13	Sequence 13, Appli
C 77	19.4	1.2	39	4	US-09-325-256-27	Sequence 27, Appli
C 78	19.4	1.2	42	4	US-09-325-256-29	Sequence 29, Appli
C 79	19.4	1.2	43	4	US-09-042-353-395	Sequence 395, App
C 80	19.4	1.2	43	4	US-08-758-417A-245	Sequence 245, App
C 81	19.4	1.2	45	3	US-08-718-904-50	Sequence 50, Appli
C 82	19.4	1.2	45	5	PCT-US95-10973A-43	Sequence 43, Appli
C 83	19.4	1.2	46	4	US-09-390-867A-49	Sequence 49, Appli
C 84	19.4	1.2	46	4	US-08-026-143B-28	Sequence 28, Appli
C 85	19.2	1.2	36	5	PCT-US94-02233-28	Sequence 28, Appli
C 86	19.2	1.2	36	5	PCT-US94-10621-28	Sequence 28, Appli
C 87	19.2	1.2	42	1	US-07-803-633A-8	Sequence 8, Appli
C 88	19.2	1.2	42	2	US-08-525-742-18	Sequence 18, Appli
C 89	19.2	1.2	44	1	US-08-232-177A-385	Sequence 385, App
C 90	19.2	1.2	44	1	US-08-258-026A-14	Sequence 14, Appli
C 91	19.2	1.2	45	1	US-08-258-026A-14	Sequence 14, Appli
C 92	19.2	1.2	45	5	PCT-US95-07541-14	Sequence 14, Appli
C 93	19.2	1.2	46	4	US-08-795-876-8	Sequence 8, Appli
C 94	19.2	1.2	47	2	US-08-406-855A-10	Sequence 10, Appli
C 95	19.2	1.2	47	3	US-09-206-899-10	Sequence 10, Appli
C 96	19.2	1.2	47	4	US-09-688-415-15	Sequence 15, Appli
C 97	19.2	1.2	48	1	US-08-929-284A-11	Sequence 11, Appli
C 98	19.2	1.2	48	1	US-08-923-757-5	Sequence 5, Appli
C 99	19.2	1.2	48	1	US-08-177-502-5	Sequence 5, Appli
C 100	19.2	1.2	48	2	US-08-383-621-8	Sequence 8, Appli

C 101	19.2	1.2	48	3	US-08-459-906-8	Sequence 8, Appli	174	18.4	1.2	45	2	US-08-908-597A-31	Sequence 31, Appli
C 102	19.2	1.2	49	1	US-08-171-389-405	Sequence 405, App	175	18.4	1.2	45	2	US-09-236-385A-31	Sequence 31, Appli
C 103	19.2	1.2	49	1	US-08-123-936-405	Sequence 405, App	176	18.4	1.2	45	5	PCT-US96-06192-31	Sequence 31, Appli
C 104	19.2	1.2	49	1	US-08-475-228A-405	Sequence 405, App	177	18.4	1.2	47	1	US-08-334-177-9	Sequence 9, Appli
C 105	19.2	1.2	49	3	US-08-482-080A-405	Sequence 405, App	178	18.4	1.2	47	4	US-08-785-668-20	Sequence 20, Appli
C 106	19.2	1.2	49	3	US-09-354-947-405	Sequence 405, App	179	18.4	1.2	47	4	US-08-785-668-21	Sequence 21, Appli
C 107	19.2	1.2	49	5	PCT-US93-12388-405	Sequence 405, App	180	18.4	1.2	47	5	PCT-US95-13830-9	Sequence 9, Appli
C 108	19.2	1.2	50	1	US-08-644-729-12	Sequence 12, Appli	181	18.4	1.2	48	5	PCT-US94-06079-32	Sequence 32, Appli
C 109	19	1.2	19	1	US-08-748-591-16	Sequence 16, Appli	182	18.4	1.2	49	1	US-08-171-389-405	Sequence 405, App
C 110	19	1.2	19	1	US-08-748-591-21	Sequence 21, Appli	183	18.4	1.2	49	1	US-08-123-936-405	Sequence 405, App
C 111	19	1.2	19	1	US-09-102-491-5	Sequence 5, Appli	184	18.4	1.2	49	2	US-08-475-228A-405	Sequence 405, App
C 112	19	1.2	19	4	US-09-102-491-9	Sequence 9, Appli	185	18.4	1.2	49	3	US-08-482-080A-405	Sequence 405, App
C 113	19	1.2	30	4	US-09-813-781-11	Sequence 11, Appli	186	18.4	1.2	49	4	US-09-354-947-405	Sequence 930, App
C 114	19	1.2	30	4	US-09-813-781-13	Sequence 13, Appli	187	18.4	1.2	49	4	US-09-538-709-930	Sequence 1153, App
C 115	19	1.2	36	4	US-09-301-199A-2	Sequence 2, Appli	188	18.4	1.2	49	5	US-09-538-709-1153	Sequence 405, App
C 116	19	1.2	39	4	US-09-450-072-8	Sequence 8, Appli	189	18.4	1.2	49	5	PCT-US93-12388-405	Sequence 126, App
C 117	19	1.2	39	4	US-09-351-348-8	Sequence 8, Appli	190	18.4	1.2	50	1	US-08-171-389-126	Sequence 481, App
C 118	19	1.2	41	4	US-08-646-265A-105	Sequence 105, App	191	18.4	1.2	50	1	US-08-171-389-181	Sequence 481, App
C 119	19	1.2	41	4	US-08-327-874A-32	Sequence 32, Appli	192	18.4	1.2	50	1	US-08-123-936-126	Sequence 421, App
C 120	19	1.2	41	5	PCT-US94-09700-32	Sequence 32, Appli	193	18.4	1.2	50	1	US-08-475-228A-126	Sequence 421, App
C 121	19	1.2	45	2	US-08-436-664-13	Sequence 13, Appli	194	18.4	1.2	50	2	US-08-475-228A-481	Sequence 481, App
C 122	19	1.2	45	2	US-08-436-664-14	Sequence 14, Appli	195	18.4	1.2	50	3	US-08-482-080A-126	Sequence 481, App
C 123	19	1.2	45	3	US-09-135-642-13	Sequence 13, Appli	196	18.4	1.2	50	3	US-08-482-080A-481	Sequence 481, App
C 124	19	1.2	45	3	US-09-135-642-14	Sequence 14, Appli	197	18.4	1.2	50	3	US-09-354-947-126	Sequence 481, App
C 125	19	1.2	45	3	US-08-394-232A-13	Sequence 13, Appli	198	18.4	1.2	50	3	US-09-354-947-481	Sequence 481, App
C 126	19	1.2	45	3	US-08-394-232A-14	Sequence 14, Appli	199	18.4	1.2	50	5	PCT-US93-12388-126	Sequence 481, App
C 127	19	1.2	45	4	US-09-813-781-7	Sequence 7, Appli	200	18.4	1.2	50	5	PCT-US93-12388-481	Sequence 481, App
C 128	19	1.2	45	5	PCT-US95-04080-13	Sequence 13, Appli	201	18.4	1.2	50	5	US-08-384-324-6	Sequence 6, Appli
C 129	19	1.2	45	5	PCT-US95-04080-14	Sequence 14, Appli	202	18.4	1.2	50	5	PCT-US96-01473-6	Sequence 6, Appli
C 130	19	1.2	46	2	US-08-448-418-10	Sequence 10, Appli	203	18.2	1.2	24	5	US-09-516-357-10	Sequence 10, Appli
C 131	18.8	1.2	39	4	US-09-450-072-8	Sequence 8, Appli	204	18.2	1.2	31	4	US-09-254-733-7	Sequence 37, Appli
C 132	18.8	1.2	39	4	US-09-351-348-8	Sequence 8, Appli	205	18.2	1.2	35	4	US-08-840-059-1	Sequence 37, Appli
C 133	18.8	1.2	40	2	US-09-371-774-75	Sequence 75, Appli	206	18.2	1.2	35	4	US-08-596-387B-37	Sequence 37, Appli
C 134	18.8	1.2	40	2	US-09-371-774-75	Sequence 75, Appli	207	18.2	1.2	39	2	US-09-067-615-37	Sequence 37, Appli
C 135	18.8	1.2	44	2	US-08-403-852D-35	Sequence 35, Appli	208	18.2	1.2	39	5	PCT-US95-09816A-37	Sequence 37, Appli
C 136	18.8	1.2	44	3	US-08-510-646B-37	Sequence 37, Appli	209	18.2	1.2	40	2	US-08-850-049-114	Sequence 114, App
C 137	18.8	1.2	44	4	US-09-231-818-35	Sequence 35, Appli	210	18.2	1.2	40	2	US-08-050-478-114	Sequence 114, App
C 138	18.8	1.2	47	2	US-08-790-963-56	Sequence 56, Appli	211	18.2	1.2	40	4	US-09-414-117-114	Sequence 114, App
C 139	18.8	1.2	47	4	US-09-371-774-56	Sequence 56, Appli	212	18.2	1.2	40	4	US-08-618-437-114	Sequence 114, App
C 140	18.8	1.2	48	1	US-08-629-600-2	Sequence 2, Appli	213	18.2	1.2	42	3	US-08-718-904-48	Sequence 48, Appli
C 141	18.8	1.2	48	4	US-09-076-761-2	Sequence 2, Appli	214	18.2	1.2	42	5	PCT-US95-10973A-41	Sequence 41, Appli
C 142	18.8	1.2	48	4	US-09-538-709-82	Sequence 82, Appli	215	18.2	1.2	45	2	US-08-975-902-32	Sequence 32, Appli
C 143	18.8	1.2	48	4	US-09-538-709-1249	Sequence 1249, App	216	18.2	1.2	45	3	US-09-251-565-32	Sequence 32, Appli
C 144	18.8	1.2	49	4	US-09-538-709-989	Sequence 989, App	217	18.2	1.2	46	1	US-08-171-389-184	Sequence 184, App
C 145	18.8	1.2	49	4	US-09-538-709-1010	Sequence 1010, App	218	18.2	1.2	46	1	US-08-123-936-184	Sequence 184, App
C 146	18.8	1.2	49	4	US-09-538-709-1158	Sequence 1158, App	219	18.2	1.2	46	1	US-08-475-228A-184	Sequence 184, App
C 147	18.8	1.2	50	4	US-09-455-679-17	Sequence 17, Appli	220	18.2	1.2	46	3	US-08-475-228A-184	Sequence 184, App
C 148	18.8	1.2	25	1	US-08-374-144-3	Sequence 3, Appli	221	18.2	1.2	46	3	US-09-641-638-1171	Sequence 1171, App
C 149	18.6	1.2	25	1	US-08-775-164-3	Sequence 3, Appli	222	18.2	1.2	46	4	US-09-641-638-1171	Sequence 1171, App
C 150	18.6	1.2	25	2	US-08-775-609-3	Sequence 3, Appli	223	18.2	1.2	46	5	PCT-US93-12388-184	Sequence 184, App
C 151	18.6	1.2	25	2	US-08-775-609-3	Sequence 3, Appli	224	18.2	1.2	47	4	US-09-641-638-1171	Sequence 1171, App
C 152	18.6	1.2	25	5	PCT-US93-06828-3	Sequence 3, Appli	225	18.2	1.2	47	4	US-09-641-638-1171	Sequence 1171, App
C 153	18.6	1.2	44	2	US-08-595-043A-45	Sequence 45, Appli	226	18.2	1.2	47	4	US-09-538-709-140	Sequence 140, App
C 154	18.6	1.2	45	3	US-08-444-818-249	Sequence 249, App	227	18.2	1.2	47	4	US-09-538-709-1307	Sequence 1307, App
C 155	18.6	1.2	45	4	US-09-561-490E-37	Sequence 37, Appli	228	18.2	1.2	48	3	US-08-755-587-196	Sequence 6, Appli
C 156	18.6	1.2	46	4	US-08-263-911-19	Sequence 19, Appli	229	18.2	1.2	48	3	US-09-000-016-6	Sequence 6, Appli
C 157	18.6	1.2	47	4	US-08-641-638-968	Sequence 968, App	230	18.2	1.2	48	4	US-09-514-340-6	Sequence 340-6, App
C 158	18.6	1.2	48	2	US-08-750-128-8	Sequence 8, Appli	231	18.2	1.2	48	4	US-09-538-709-991	Sequence 991, App
C 159	18.6	1.2	49	1	US-07-972-032-74	Sequence 74, Appli	232	18.2	1.2	49	4	US-09-538-709-1008	Sequence 1008, App
C 160	18.6	1.2	49	1	US-08-642-255-87	Sequence 87, Appli	233	18.2	1.2	49	4	US-09-538-709-1060	Sequence 1060, App
C 161	18.6	1.2	49	4	US-09-538-709-112	Sequence 112, App	234	18.2	1.2	50	1	US-08-171-389-331	Sequence 331, App
C 162	18.6	1.2	49	4	US-09-538-709-1099	Sequence 1099, App	235	18.2	1.2	50	1	US-08-123-936-331	Sequence 331, App
C 163	18.6	1.2	49	4	US-09-538-709-1279	Sequence 1279, App	236	18.2	1.2	50	2	US-08-475-228A-331	Sequence 331, App
C 164	18.6	1.2	50	1	US-08-171-389-463	Sequence 463, App	237	18.2	1.2	50	3	US-08-482-080A-331	Sequence 331, App
C 165	18.6	1.2	50	1	US-08-123-936-463	Sequence 463, App	238	18.2	1.2	50	4	US-09-196-722A-90	Sequence 90, Appli
C 166	18.6	1.2	50	2	US-08-475-228A-463	Sequence 463, App	239	18.2	1.2	50	4	US-09-354-947-331	Sequence 331, App
C 167	18.6	1.2	50	3	US-08-482-080A-463	Sequence 463, App	240	18.2	1.2	50	5	PCT-US93-12388-331	Sequence 331, App
C 168	18.6	1.2	50	4	US-08-785-668-23	Sequence 23, Appli	241	18.2	1.2	18	4	US-09-102-491-6	Sequence 6, Appli
C 169	18.6	1.2	50	4	US-09-354-947-463	Sequence 463, App	242	18	1.1	18	4	US-08-758-306-1170	Sequence 1170, App
C 170	18.6	1.2	50	5	PCT-US93-12388-463	Sequence 463, App	243	18	1.1	27	1	US-08-858-003-4	Sequence 4, Appli
C 171	18.4	1.2	43	2	US-08-465-473B-27	Sequence 27, Appli	244	18	1.1	35	3	US-09-078-166-4	Sequence 4, Appli
C 172	18.4	1.2	44	2	US-08-982-232-17	Sequence 17, Appli	245	18	1.1	35	3	US-08-997-467-4	Sequence 4, Appli
C 173	18.4	1.2	45	1	US-08-440-391-31	Sequence 31, Appli	246	18	1.1	35	4		

247	18	1.1	2	US-08-863-639A-31	Sequence 31, Appl	C 320	17.8	1.1	50	1	US-08-123-936-537	Sequence 537, App
C 248	18	1.1	36	US-08-327-874A-28	Sequence 28, Appl	C 321	17.8	1.1	50	2	US-08-475-228A-537	Sequence 537, App
C 249	18	1.1	36	PCT-US94-09700-28	Sequence 28, Appl	C 321	17.8	1.1	50	3	US-08-482-080A-537	Sequence 537, App
C 250	18	1.1	39	US-09-387-300-34	Sequence 34, Appl	C 322	17.8	1.1	50	4	US-09-354-947-537	Sequence 537, App
251	18	1.1	39	US-09-325-256-28	Sequence 28, Appl	C 323	17.8	1.1	50	5	PCT-US93-12388-537	Sequence 537, App
252	18	1.1	39	5520913-19	Patent No. 5520913	C 324	17.8	1.1	50	6	US-08-797-358B-9	Sequence 9, Appl
253	18	1.1	42	US-07-803-633A-7	Sequence 7, Appl	C 325	17.6	1.1	27	4	US-08-976-427-20	Sequence 20, Appl
254	18	1.1	42	US-08-455-627-22	Sequence 22, Appl	C 326	17.6	1.1	27	5	US-08-976-427-20	Sequence 20, Appl
255	18	1.1	42	US-08-093-741-23	Sequence 23, Appl	C 327	17.6	1.1	32	4	US-09-648-312-20	Sequence 20, Appl
256	18	1.1	42	US-08-720-012-23	Sequence 23, Appl	C 328	17.6	1.1	34	1	US-08-049-264C-22	Sequence 22, Appl
257	18	1.1	42	US-08-689-856-22	Sequence 22, Appl	C 329	17.6	1.1	34	1	US-08-476-562-22	Sequence 22, Appl
258	18	1.1	42	US-08-525-742-17	Sequence 17, Appl	C 330	17.6	1.1	34	1	US-08-479-723A-22	Sequence 22, Appl
259	18	1.1	42	US-08-560-098A-28	Sequence 28, Appl	C 331	17.6	1.1	34	5	PCT-US94-04310-22	Sequence 22, Appl
260	18	1.1	42	US-08-967-024C-16	Sequence 16, Appl	C 332	17.6	1.1	36	2	US-08-435-350-3	Sequence 3, Appl
261	18	1.1	43	US-08-406-635-2	Sequence 2, Appl	C 333	17.6	1.1	36	2	US-08-750-128-10	Sequence 3, Appl
262	18	1.1	43	US-09-098-287A-11	Sequence 11, Appl	C 334	17.6	1.1	36	4	US-08-327-874A-28	Sequence 10, Appl
263	18	1.1	43	US-09-590-061-20	Sequence 20, Appl	C 335	17.6	1.1	36	5	PCT-US94-09700-28	Sequence 28, Appl
264	18	1.1	45	PCT-US94-14106-18	Sequence 18, Appl	C 336	17.6	1.1	40	4	US-08-848-760B-19	Sequence 19, Appl
265	18	1.1	46	US-08-556-424-4	Sequence 4, Appl	C 337	17.6	1.1	41	1	US-08-171-389-243	Sequence 24, App
266	18	1.1	46	US-09-263-914-4	Sequence 1074, Ap	C 338	17.6	1.1	41	1	US-08-171-389-243	Sequence 24, App
C 267	18	1.1	47	US-09-641-638-1074	Sequence 1074, Ap	C 339	17.6	1.1	41	2	US-08-123-936-243	Sequence 24, App
268	18	1.1	48	US-08-171-389-203	Sequence 203, App	C 340	17.6	1.1	41	2	US-08-475-228A-243	Sequence 24, App
269	18	1.1	48	US-08-123-936-203	Sequence 203, App	C 341	17.6	1.1	41	3	US-08-482-080A-243	Sequence 24, App
270	18	1.1	48	US-08-475-228A-203	Sequence 203, App	C 342	17.6	1.1	41	3	US-09-136-421-7	Sequence 7, Appl
271	18	1.1	48	US-08-482-080A-203	Sequence 203, App	C 343	17.6	1.1	41	4	PCT-US93-12388-243	Sequence 7, Appl
272	18	1.1	48	US-09-543-004-37	Sequence 37, Appl	C 344	17.6	1.1	42	3	US-09-354-947-543	Sequence 24, App
273	18	1.1	48	US-09-425-638A-37	Sequence 37, Appl	C 345	17.6	1.1	42	3	US-08-171-389-63	Sequence 63, Appl
274	18	1.1	48	US-09-354-947-203	Sequence 203, App	C 346	17.6	1.1	44	1	US-08-123-936-63	Sequence 63, Appl
C 275	18	1.1	48	PCT-US93-12388-203	Sequence 203, App	C 347	17.6	1.1	44	1	US-08-475-228A-63	Sequence 63, Appl
276	18	1.1	48	US-09-538-709-955	Sequence 33, Appl	C 348	17.6	1.1	44	2	US-08-879-475-7	Sequence 7, Appl
277	18	1.1	49	US-09-538-709-955	Sequence 33, Appl	C 349	17.6	1.1	44	2	US-08-879-475-7	Sequence 7, Appl
278	18	1.1	49	US-09-538-709-955	Sequence 33, Appl	C 350	17.6	1.1	44	3	US-08-879-475-7	Sequence 7, Appl
279	18	1.1	49	US-09-538-709-955	Sequence 33, Appl	C 351	17.6	1.1	44	3	US-08-879-475-7	Sequence 7, Appl
C 280	18	1.1	50	US-08-171-389-978	Sequence 978, App	C 352	17.6	1.1	44	4	PCT-US93-12388-63	Sequence 63, Appl
281	18	1.1	50	US-08-171-389-978	Sequence 978, App	C 353	17.6	1.1	45	1	US-07-601-094-6	Sequence 6, Appl
282	18	1.1	50	US-08-222-177A-169	Sequence 169, App	C 354	17.6	1.1	45	1	US-08-158-067-22	Sequence 22, Appl
C 283	18	1.1	50	US-08-123-936-374	Sequence 374, App	C 355	17.6	1.1	45	2	US-08-273-146-20	Sequence 20, Appl
284	18	1.1	50	US-08-123-936-374	Sequence 374, App	C 356	17.6	1.1	45	2	US-08-860-882A-7	Sequence 7, Appl
285	18	1.1	50	US-08-642-255-88	Sequence 88, Appl	C 357	17.6	1.1	45	2	PCT-US96-07795-22	Sequence 22, Appl
C 286	18	1.1	50	US-08-475-228A-374	Sequence 374, App	C 358	17.6	1.1	45	5	US-08-249-112-5	Sequence 5, Appl
287	18	1.1	50	US-08-475-228A-474	Sequence 474, App	C 359	17.6	1.1	46	5	PCT-US96-07795-22	Sequence 22, Appl
288	18	1.1	50	US-08-540-804-33	Sequence 33, Appl	C 360	17.6	1.1	46	5	US-08-249-112-5	Sequence 5, Appl
C 289	18	1.1	50	US-08-218-265-33	Sequence 33, Appl	C 361	17.6	1.1	46	5	PCT-US95-06556-5	Sequence 5, Appl
290	18	1.1	50	US-08-482-080A-374	Sequence 374, App	C 362	17.6	1.1	47	4	US-09-338-907-269	Sequence 269, App
C 291	18	1.1	50	US-08-482-080A-474	Sequence 474, App	C 363	17.6	1.1	47	4	US-09-364-707A-7	Sequence 7, Appl
292	18	1.1	50	US-08-521-872-33	Sequence 33, Appl	C 364	17.6	1.1	47	4	US-09-147-119-3	Sequence 3, Appl
293	18	1.1	50	US-08-590-399-33	Sequence 33, Appl	C 365	17.6	1.1	47	4	US-09-338-907-269	Sequence 269, App
294	18	1.1	50	US-09-007-005-5	Sequence 5, Appl	C 366	17.6	1.1	47	4	US-09-641-638-718	Sequence 718, App
C 295	18	1.1	50	US-09-244-796-5	Sequence 5, Appl	C 367	17.6	1.1	47	4	US-08-151-574-14	Sequence 14, Appl
296	18	1.1	50	US-09-434-131A-14	Sequence 14, Appl	C 368	17.6	1.1	48	1	US-08-273-146-42	Sequence 42, Appl
297	18	1.1	50	US-09-354-947-374	Sequence 374, App	C 369	17.6	1.1	48	2	US-08-419-448-14	Sequence 14, Appl
C 298	18	1.1	50	PCT-US93-12388-374	Sequence 374, App	C 370	17.6	1.1	48	2	US-09-233-510-14	Sequence 14, Appl
C 299	18	1.1	50	PCT-US93-12388-474	Sequence 474, App	C 371	17.6	1.1	48	4	US-08-171-389-262	Sequence 262, App
C 300	18	1.1	50	US-09-277-078-24	Sequence 24, App	C 372	17.6	1.1	49	1	US-08-123-936-262	Sequence 262, App
C 301	18	1.1	32	US-09-230-180-10	Sequence 10, Appl	C 373	17.6	1.1	49	1	US-08-475-228A-262	Sequence 262, App
C 302	18	1.1	32	US-08-973-005A-6	Sequence 6, Appl	C 374	17.6	1.1	49	2	US-08-482-080A-262	Sequence 262, App
C 303	18	1.1	45	US-08-171-389-291	Sequence 291, App	C 375	17.6	1.1	49	3	US-08-482-080A-262	Sequence 262, App
C 304	18	1.1	45	US-08-587-333-15	Sequence 291, App	C 376	17.6	1.1	49	4	US-09-354-947-262	Sequence 262, App
C 305	18	1.1	45	US-08-587-333-15	Sequence 291, App	C 377	17.6	1.1	49	4	US-09-538-709-102	Sequence 102, App
C 306	18	1.1	45	US-08-475-228A-291	Sequence 291, App	C 378	17.6	1.1	49	4	PCT-US93-12388-262	Sequence 262, App
C 307	18	1.1	45	US-08-482-080A-291	Sequence 291, App	C 379	17.6	1.1	49	5	US-08-171-389-524	Sequence 524, App
C 308	18	1.1	45	US-08-501-253A-14	Sequence 14, Appl	C 380	17.6	1.1	50	1	US-08-171-389-524	Sequence 524, App
C 309	18	1.1	45	US-08-501-253A-14	Sequence 14, Appl	C 381	17.6	1.1	50	1	US-08-123-936-524	Sequence 524, App
C 310	18	1.1	45	US-09-354-947-291	Sequence 291, App	C 382	17.6	1.1	50	1	US-08-123-936-524	Sequence 524, App
C 311	18	1.1	45	PCT-US93-12388-291	Sequence 291, App	C 383	17.6	1.1	50	1	US-08-475-228A-524	Sequence 524, App
C 312	18	1.1	46	US-08-030-731A-28	Sequence 28, Appl	C 384	17.6	1.1	50	2	US-08-475-228A-524	Sequence 524, App
C 313	18	1.1	46	US-08-030-731A-28	Sequence 28, Appl	C 385	17.6	1.1	50	2	US-08-475-228A-524	Sequence 524, App
C 314	18	1.1	46	US-08-030-731A-29	Sequence 29, Appl	C 386	17.6	1.1	50	2	US-08-793-170-17	Sequence 17, Appl
C 315	18	1.1	46	US-08-030-731A-31	Sequence 31, Appl	C 387	17.6	1.1	50	3	US-08-482-080A-524	Sequence 524, App
C 316	18	1.1	46	US-08-883-795A-30	Sequence 30, Appl	C 388	17.6	1.1	50	3	US-08-482-080A-524	Sequence 524, App
317	18	1.1	47	US-08-758-626-23	Sequence 23, Appl	C 389	17.6	1.1	50	3	US-08-899-873-17	Sequence 17, Appl
318	18	1.1	48	PCT-US94-07684-23	Sequence 23, Appl	C 390	17.6	1.1	50	3	US-08-782-480-78	Sequence 78, Appl
C 319	18	1.1	50	US-08-171-389-537	Sequence 537, App	C 391	17.6	1.1	50	3	US-09-334-765A-17	Sequence 17, Appl
						C 392	17.6	1.1	50	4	US-08-954-211-78	Sequence 78, Appl

393	17.6	1.1	50	US-09-356-575E-17	Sequence 17, Appl	466	17.2	1.1	24	US-09-387-699-12	Sequence 12, Appl
394	17.6	1.1	50	US-09-333-820-17	Sequence 17, Appl	467	17.2	1.1	24	US-09-305-183-31	Sequence 31, Appl
395	17.6	1.1	50	US-09-358-036-39	Sequence 39, Appl	468	17.2	1.1	24	US-09-641-2599-12	Sequence 12, Appl
396	17.6	1.1	50	US-09-354-947-524	Sequence 524, App	469	17.2	1.1	30	US-09-052-919-21	Sequence 21, Appl
397	17.6	1.1	50	US-09-354-947-591	Sequence 591, Appl	470	17.2	1.1	30	US-09-674-460-2	Sequence 2, Appl
398	17.6	1.1	50	US-09-005-1678A-78	Sequence 78, Appl	471	17.2	1.1	35	US-09-194-613-7	Sequence 7, Appl
399	17.6	1.1	50	US-09-449-218D-24	Sequence 24, Appl	472	17.2	1.1	36	US-09-423-439-39	Sequence 39, Appl
400	17.6	1.1	50	US-09-097-239-39	Sequence 39, Appl	473	17.2	1.1	37	US-08-428-616A-3	Sequence 3, Appl
401	17.6	1.1	50	US-09-176-741B-78	Sequence 78, Appl	474	17.2	1.1	38	US-08-966-241-5	Sequence 5, Appl
402	17.6	1.1	50	PCT-US91-03540A-5	Sequence 5, Appl	475	17.2	1.1	39	US-09-103-866-5	Sequence 5, Appl
403	17.6	1.1	50	PCT-US93-12388-524	Sequence 524, App	476	17.2	1.1	39	US-07-612-673-16	Sequence 16, Appl
404	17.6	1.1	50	PCT-US93-12388-591	Sequence 591, App	477	17.2	1.1	40	US-08-539-666-17	Sequence 17, Appl
405	17.6	1.1	50	5168050-14	Patent No. 5168050	478	17.2	1.1	41	US-08-453-956-22	Sequence 22, Appl
406	17.4	1.1	26	US-09-301-199A-1	Sequence 1, Appl	479	17.2	1.1	41	US-08-086-631-22	Sequence 22, Appl
407	17.4	1.1	27	US-08-208-486-80	Sequence 80, Appl	480	17.2	1.1	41	US-08-452-930-22	Sequence 22, Appl
408	17.4	1.1	27	US-08-208-486-81	Sequence 81, Appl	481	17.2	1.1	41	PCT-US93-08174-22	Sequence 22, Appl
409	17.4	1.1	28	US-08-846-020A-2	Sequence 2, Appl	482	17.2	1.1	41	US-08-124-981A-11	Sequence 11, Appl
410	17.4	1.1	28	US-09-617-871-2	Sequence 2, Appl	483	17.2	1.1	42	US-08-827-974-1	Sequence 1, Appl
411	17.4	1.1	33	5256770-5	Patent No. 5256770	484	17.2	1.1	42	US-09-037-190-9	Sequence 9, Appl
412	17.4	1.1	35	US-08-468-220-8	Sequence 8, Appl	485	17.2	1.1	42	US-09-037-192-9	Sequence 9, Appl
413	17.4	1.1	35	US-08-468-698-8	Sequence 8, Appl	486	17.2	1.1	42	US-09-037-193-9	Sequence 9, Appl
414	17.4	1.1	35	US-08-194-664A-8	Sequence 8, Appl	487	17.2	1.1	42	US-09-049-631-9	Sequence 9, Appl
415	17.4	1.1	35	PCT-US94-01553A-8	Sequence 8, Appl	488	17.2	1.1	42	US-08-260-174-9	Sequence 9, Appl
416	17.4	1.1	35	PCT-US95-10426-8	Sequence 8, Appl	489	17.2	1.1	42	US-08-910-722-5	Sequence 5, Appl
417	17.4	1.1	36	US-08-334-847-876	Sequence 876, App	490	17.2	1.1	42	US-09-338-188A-9	Sequence 9, Appl
418	17.4	1.1	36	US-08-746-883-9	Sequence 9, Appl	491	17.2	1.1	42	US-09-323-346-9	Sequence 9, Appl
419	17.4	1.1	38	US-08-690-102A-12	Sequence 12, Appl	492	17.2	1.1	42	US-09-037-192-9	Sequence 9, Appl
420	17.4	1.1	38	US-09-127-902-12	Sequence 12, Appl	493	17.2	1.1	42	PCT-US95-11405-18	Sequence 18, Appl
421	17.4	1.1	38	US-09-155-107-24	Sequence 12, Appl	494	17.2	1.1	42	5182196-21	Patent No. 5182196
422	17.4	1.1	38	PCT-US95-09641-12	Sequence 12, Appl	495	17.2	1.1	42	US-08-253-877C-34	Sequence 34, Appl
423	17.4	1.1	42	US-08-261-660A-28	Sequence 28, Appl	496	17.2	1.1	43	US-08-452-164A-34	Sequence 34, Appl
424	17.4	1.1	42	US-08-889-502-35	Sequence 35, Appl	497	17.2	1.1	43	US-08-634-060-28	Sequence 28, Appl
425	17.4	1.1	42	US-09-280-909A-28	Sequence 28, Appl	498	17.2	1.1	43	US-08-487-761-1	Sequence 1, Appl
426	17.4	1.1	42	PCT-US94-06931-28	Sequence 28, Appl	499	17.2	1.1	44	US-09-517-897-15	Sequence 15, Appl
427	17.4	1.1	44	US-08-171-389-152	Sequence 152, App	500	17.2	1.1	44	US-08-123-936-183	Sequence 183, App
428	17.4	1.1	44	US-08-123-936-152	Sequence 152, App	501	17.2	1.1	45	US-08-171-389-183	Sequence 183, App
429	17.4	1.1	44	US-08-475-228A-152	Sequence 152, App	502	17.2	1.1	45	US-08-475-228A-183	Sequence 183, App
430	17.4	1.1	44	US-08-482-080A-152	Sequence 152, App	503	17.2	1.1	46	PCT-US94-14106-15	Sequence 15, Appl
431	17.4	1.1	44	US-09-354-947-152	Sequence 152, App	504	17.2	1.1	46	US-08-123-936-183	Sequence 183, App
432	17.4	1.1	44	PCT-US93-12388-152	Sequence 152, App	505	17.2	1.1	46	US-08-171-389-183	Sequence 183, App
433	17.4	1.1	45	US-07-885-689A-2	Sequence 2, Appl	506	17.2	1.1	46	US-08-482-080A-183	Sequence 183, App
434	17.4	1.1	45	US-08-171-389-199	Sequence 199, App	507	17.2	1.1	46	PCT-US93-12388-183	Sequence 183, App
435	17.4	1.1	45	US-08-123-936-199	Sequence 199, App	508	17.2	1.1	46	US-09-438-016-6	Sequence 6, Appl
436	17.4	1.1	45	US-08-475-228A-199	Sequence 199, App	509	17.2	1.1	47	US-09-641-638-786	Sequence 786, App
437	17.4	1.1	45	US-08-482-080A-199	Sequence 199, App	510	17.2	1.1	47	US-09-641-638-866	Sequence 866, App
438	17.4	1.1	45	US-09-199-737-7	Sequence 7, Appl	512	17.2	1.1	47	US-09-641-638-1111	Sequence 1111, App
439	17.4	1.1	45	US-09-058-333A-7	Sequence 199, App	513	17.2	1.1	47	US-09-641-638-1197	Sequence 1197, App
440	17.4	1.1	45	US-09-354-947-199	Sequence 199, App	514	17.2	1.1	47	US-09-641-638-1276	Sequence 1276, App
441	17.4	1.1	45	PCT-US94-12388-199	Sequence 43, Appl	515	17.2	1.1	48	US-08-929-856-14	Sequence 14, Appl
442	17.4	1.1	45	PCT-US94-06079-43	Sequence 70, Appl	516	17.2	1.1	48	US-08-929-856-16	Sequence 16, Appl
443	17.4	1.1	46	US-08-235-503B-70	Sequence 70, Appl	518	17.2	1.1	48	US-08-929-856-18	Sequence 18, Appl
444	17.4	1.1	46	PCT-US95-05265-70	Sequence 13, Appl	519	17.2	1.1	48	US-08-929-856-31	Sequence 31, Appl
445	17.4	1.1	46	US-08-171-389-13	Sequence 13, Appl	520	17.2	1.1	48	US-08-086-634-10	Sequence 10, Appl
446	17.4	1.1	47	US-08-123-936-13	Sequence 13, Appl	521	17.2	1.1	49	US-09-538-709-92	Sequence 92, Appl
447	17.4	1.1	47	US-08-475-228A-13	Sequence 13, Appl	522	17.2	1.1	49	US-09-538-709-1259	Sequence 1259, App
448	17.4	1.1	47	US-08-482-080A-13	Sequence 13, Appl	524	17.2	1.1	49	US-08-171-389-112	Sequence 112, App
449	17.4	1.1	47	US-09-354-947-13	Sequence 1078, App	525	17.2	1.1	50	US-08-171-389-331	Sequence 331, App
450	17.4	1.1	47	US-09-641-638-1078	Sequence 1186, App	526	17.2	1.1	50	US-08-123-936-112	Sequence 112, App
451	17.4	1.1	47	US-09-641-638-1186	Sequence 13, Appl	527	17.2	1.1	50	US-08-123-936-331	Sequence 331, App
452	17.4	1.1	48	PCT-US93-12388-13	Sequence 8, Appl	528	17.2	1.1	50	US-08-475-228A-112	Sequence 112, App
453	17.4	1.1	48	US-08-750-128-6	Sequence 197, App	529	17.2	1.1	50	US-08-475-228A-331	Sequence 331, App
454	17.4	1.1	48	US-08-565-587-197	Sequence 27, Appl	530	17.2	1.1	50	US-08-482-080A-112	Sequence 112, App
455	17.4	1.1	49	US-08-261-660A-27	Sequence 27, Appl	531	17.2	1.1	50	US-08-482-080A-331	Sequence 331, App
456	17.4	1.1	49	US-09-280-909A-27	Sequence 27, Appl	532	17.2	1.1	50	US-09-455-679-16	Sequence 16, Appl
457	17.4	1.1	49	PCT-US94-06931-27	Sequence 11, Appl	533	17.2	1.1	50	US-09-354-947-112	Sequence 112, App
458	17.4	1.1	50	US-08-357-399-11	Sequence 11, Appl	534	17.2	1.1	50	PCT-US91-03540A-5	Patent No. 5168050
459	17.4	1.1	50	US-08-357-666-11	Sequence 11, Appl	535	17.2	1.1	50	US-08-747-755A-31	Sequence 31, Appl
460	17.4	1.1	50	US-08-206-175-11	Sequence 11, App	536	17.2	1.1	50	US-09-226-683-31	Sequence 31, Appl
461	17.4	1.1	50	US-09-025-769B-117	Sequence 5, Appl	537	17.2	1.1	50		
462	17.4	1.1	50	PCT-US91-03540A-5	Patent No. 5168050	538	17.2	1.1	50		
463	17.4	1.1	50	5168050-14	Patent No. 5168050						
464	17.2	1.1	24	US-08-747-755A-31	Sequence 31, Appl						
465	17.2	1.1	24	US-09-226-683-31	Sequence 31, Appl						

539	17	1.1	25	4	US-09-292-036-5	Sequence 5, App1	C 612	17	1.1	50	4	US-09-128-354-17	Sequence 17, App1
C 540	17	1.1	29	1	US-08-005-283-12	Sequence 12, App1	C 613	17	1.1	50	4	US-09-354-947-364	Sequence 364, App
541	17	1.1	33	3	US-08-801-154-3	Sequence 3, App1	C 614	17	1.1	50	4	US-09-354-947-497	Sequence 497, App
542	17	1.1	33	3	US-08-873-709-12	Sequence 12, App1	C 615	17	1.1	50	4	US-09-930-181-1	Sequence 22, App1
C 543	17	1.1	33	3	US-08-930-589A-15	Sequence 15, App1	C 616	17	1.1	50	4	US-09-296-328A-12	Sequence 14, App1
544	17	1.1	33	3	US-09-437-034B-7	Sequence 7, App1	C 617	17	1.1	50	4	US-09-930-181-1	Sequence 22, App1
545	17	1.1	33	4	US-09-255-464B-8	Sequence 8, App1	C 618	17	1.1	50	4	US-09-538-709-1077	Sequence 1077, App
C 546	17	1.1	33	4	US-09-599-781-15	Sequence 15, App1	C 619	17	1.1	50	5	PCT-US93-12388-364	Sequence 364, App
C 547	17	1.1	33	5	PCT-US94-06331A-51	Sequence 51, App1	C 620	16.8	1.1	29	1	US-08-586-272-17	Sequence 17, App1
548	17	1.1	35	3	US-08-463-903-40	Sequence 40, App1	C 621	16.8	1.1	29	3	US-08-982-962-17	Sequence 17, App1
C 549	17	1.1	35	3	US-08-810-009-65	Sequence 65, App1	C 622	16.8	1.1	30	1	US-08-318-193-64	Sequence 17, App1
C 550	17	1.1	35	3	US-07-935-695-40	Sequence 40, App1	C 623	16.8	1.1	30	1	US-08-543-630-1	Sequence 17, App1
C 551	17	1.1	37	3	US-08-801-154-2	Sequence 2, App1	C 624	16.8	1.1	30	2	US-08-888-366-28	Sequence 28, App1
C 552	17	1.1	37	3	US-09-143-270-8	Sequence 8, App1	C 625	16.8	1.1	30	2	US-08-600-900C-49	Sequence 49, App1
C 553	17	1.1	37	3	US-08-873-709-11	Sequence 11, App1	C 626	16.8	1.1	30	4	US-08-674-509B-19	Sequence 19, App1
554	17	1.1	37	3	US-07-875-790B-10	Sequence 10, App1	C 627	16.8	1.1	30	4	US-08-954-698-19	Sequence 19, App1
C 555	17	1.1	37	4	US-09-437-034B-6	Sequence 6, App1	C 628	16.8	1.1	30	4	US-08-589-109A-13	Sequence 13, App1
C 556	17	1.1	37	4	US-09-255-464B-7	Sequence 7, App1	C 629	16.8	1.1	33	1	US-08-137-117D-75	Sequence 75, App1
C 557	17	1.1	37	4	US-09-450-083-8	Sequence 8, App1	C 630	16.8	1.1	33	1	US-08-436-717-76	Sequence 76, App1
C 558	17	1.1	37	4	US-09-417-418-2	Sequence 2, App1	C 631	16.8	1.1	33	1	US-08-436-717-76	Sequence 76, App1
559	17	1.1	38	1	US-08-707-793A-10	Sequence 10, App1	C 632	16.8	1.1	33	1	US-08-436-717-76	Sequence 76, App1
C 560	17	1.1	38	1	US-08-707-793A-10	Sequence 10, App1	C 633	16.8	1.1	33	1	US-08-753-247-3	Sequence 76, App1
C 561	17	1.1	38	2	US-08-124-981A-21	Sequence 21, App1	C 634	16.8	1.1	33	3	US-08-685-871-15	Sequence 3, App1
C 562	17	1.1	38	3	US-09-037-190-19	Sequence 19, App1	C 635	16.8	1.1	35	3	US-08-685-871-20	Sequence 20, App1
C 563	17	1.1	38	3	US-09-037-192-19	Sequence 19, App1	C 636	16.8	1.1	35	3	US-08-685-871-24	Sequence 24, App1
C 564	17	1.1	38	3	US-09-037-192-19	Sequence 19, App1	C 637	16.8	1.1	35	3	US-08-685-871-28	Sequence 28, App1
C 565	17	1.1	38	4	US-09-049-691-19	Sequence 19, App1	C 638	16.8	1.1	35	3	US-08-685-871-34	Sequence 34, App1
C 566	17	1.1	38	4	US-08-260-174-19	Sequence 19, App1	C 639	16.8	1.1	35	3	US-08-685-871-36	Sequence 36, App1
C 567	17	1.1	38	4	US-09-338-128A-19	Sequence 19, App1	C 640	16.8	1.1	35	3	US-08-685-871-38	Sequence 38, App1
C 568	17	1.1	38	4	US-09-232-346-19	Sequence 19, App1	C 641	16.8	1.1	35	3	US-08-685-871-46	Sequence 46, App1
C 569	17	1.1	38	4	US-09-037-192-19	Sequence 19, App1	C 642	16.8	1.1	35	3	US-08-435-627-7	Sequence 7, App1
570	17	1.1	39	4	US-08-556-978B-64	Sequence 64, App1	C 643	16.8	1.1	36	1	US-08-435-627-7	Sequence 7, App1
C 571	17	1.1	39	4	US-08-425-684-128	Sequence 128, App	C 644	16.8	1.1	36	1	US-08-435-627-7	Sequence 7, App1
572	17	1.1	40	2	US-08-675-502-128	Sequence 128, App	C 645	16.8	1.1	36	2	US-08-689-856-7	Sequence 7, App1
C 573	17	1.1	40	2	US-09-546-483-1	Sequence 1, App1	C 646	16.8	1.1	36	2	US-08-689-856-7	Sequence 7, App1
C 574	17	1.1	40	4	US-08-823-177-1	Sequence 1, App1	C 647	16.8	1.1	37	1	US-08-428-733A-0	Sequence 6, App1
C 575	17	1.1	40	4	US-08-823-177-1	Sequence 1, App1	C 648	16.8	1.1	37	1	US-08-428-733A-0	Sequence 6, App1
576	17	1.1	41	1	US-08-481-003-9	Sequence 9, App1	C 649	16.8	1.1	39	1	US-09-099-307-20	Sequence 20, App1
577	17	1.1	41	1	US-08-481-003-9	Sequence 9, App1	C 650	16.8	1.1	40	1	US-08-390-878-3	Sequence 3, App1
C 578	17	1.1	42	1	US-08-468-036-30	Sequence 30, App1	C 651	16.8	1.1	40	2	US-08-850-049-126	Sequence 126, App
C 579	17	1.1	42	2	US-08-376-843-30	Sequence 12, App1	C 652	16.8	1.1	40	2	US-08-050-478-126	Sequence 126, App
580	17	1.1	42	2	US-09-459-958-12	Sequence 12, App1	C 653	16.8	1.1	40	4	US-09-414-117-126	Sequence 126, App
C 581	17	1.1	43	4	US-09-387-300-35	Sequence 35, App1	C 654	16.8	1.1	40	4	US-09-678-437-126	Sequence 126, App
C 582	17	1.1	45	1	US-08-481-003-8	Sequence 8, App1	C 655	16.8	1.1	41	2	US-08-372-190-57	Sequence 57, App1
C 583	17	1.1	45	3	US-08-997-918-22	Sequence 22, App1	C 656	16.8	1.1	41	2	US-08-438-190A-57	Sequence 57, App1
C 584	17	1.1	45	3	US-08-485-598-8	Sequence 8, App1	C 657	16.8	1.1	41	2	US-08-438-190A-57	Sequence 57, App1
C 585	17	1.1	45	4	US-09-605-785-784	Sequence 784, App	C 658	16.8	1.1	41	3	US-09-287-145A-57	Sequence 57, App1
C 586	17	1.1	45	4	US-07-518-914-14	Sequence 14, App1	C 659	16.8	1.1	41	4	US-09-556-111-57	Sequence 57, App1
C 587	17	1.1	46	1	US-07-854-596B-10	Sequence 10, App1	C 660	16.8	1.1	42	3	US-08-874-825-6	Sequence 6, App1
588	17	1.1	46	1	US-08-171-389-175	Sequence 175, App	C 661	16.8	1.1	42	3	US-08-663-824-6	Sequence 6, App1
589	17	1.1	46	2	US-08-475-228A-175	Sequence 175, App	C 662	16.8	1.1	42	3	US-08-663-824-6	Sequence 6, App1
590	17	1.1	46	2	US-07-916-098A-60	Sequence 60, App1	C 663	16.8	1.1	42	4	US-09-231-303-6	Sequence 231, App1
591	17	1.1	46	2	US-08-482-080A-175	Sequence 175, App	C 664	16.8	1.1	43	1	US-07-931-473B-263	Sequence 263, App
592	17	1.1	46	3	US-09-354-947-175	Sequence 175, App	C 665	16.8	1.1	43	1	US-07-714-131C-263	Sequence 263, App
593	17	1.1	46	4	PCT-US93-12388-175	Sequence 175, App	C 666	16.8	1.1	43	1	US-08-412-110-263	Sequence 263, App
594	17	1.1	46	5	US-09-641-638-1190	Sequence 1190, App	C 667	16.8	1.1	43	1	US-08-409-442A-263	Sequence 263, App
C 595	17	1.1	47	4	US-08-828-533-37	Sequence 37, App1	C 668	16.8	1.1	43	2	US-08-469-609A-263	Sequence 263, App
596	17	1.1	48	4	US-07-994-469A-26	Sequence 26, App1	C 669	16.8	1.1	43	3	US-08-726-807B-23	Sequence 23, App1
597	17	1.1	49	1	US-09-538-709-929	Sequence 929, App	C 670	16.8	1.1	43	3	US-09-143-190-263	Sequence 23, App1
598	17	1.1	49	4	US-09-538-709-940	Sequence 940, App	C 671	16.8	1.1	43	3	US-09-546-550-23	Sequence 23, App1
599	17	1.1	49	4	US-09-538-709-1051	Sequence 1051, App	C 672	16.8	1.1	43	4	US-09-225-670-23	Sequence 23, App1
C 600	17	1.1	49	4	US-08-123-936-497	Sequence 364, App	C 673	16.8	1.1	43	4	US-09-225-670-23	Sequence 23, App1
C 601	17	1.1	50	1	US-08-475-228A-364	Sequence 364, App	C 674	16.8	1.1	43	4	US-09-225-670-23	Sequence 23, App1
C 602	17	1.1	50	1	US-08-171-389-364	Sequence 364, App	C 675	16.8	1.1	43	4	US-09-225-670-23	Sequence 23, App1
C 603	17	1.1	50	1	US-08-123-936-497	Sequence 364, App	C 676	16.8	1.1	43	4	US-09-225-670-23	Sequence 23, App1
C 604	17	1.1	50	1	US-08-475-228A-364	Sequence 364, App	C 677	16.8	1.1	44	2	US-08-982-232-2	Sequence 23, App1
C 605	17	1.1	50	1	US-08-123-936-497	Sequence 364, App	C 678	16.8	1.1	44	2	US-08-982-232-2	Sequence 23, App1
C 606	17	1.1	50	1	US-08-475-228A-364	Sequence 364, App	C 679	16.8	1.1	44	2	US-08-982-232-2	Sequence 23, App1
C 607	17	1.1	50	2	US-08-475-228A-364	Sequence 364, App	C 680	16.8	1.1	44	2	US-08-982-232-2	Sequence 23, App1
C 608	17	1.1	50	2	US-08-475-228A-364	Sequence 364, App	C 681	16.8	1.1	44	3	US-09-219-849-24	Sequence 24, App1
C 609	17	1.1	50	3	US-08-482-080A-364	Sequence 364, App	C 682	16.8	1.1	45	1	US-08-171-389-84	Sequence 84, App1
C 610	17	1.1	50	3	US-08-482-080A-364	Sequence 364, App	C 683	16.8	1.1	45	1	US-08-449-207-3	Sequence 3, App1
C 611	17	1.1	50	3	US-08-998-099-286	Sequence 286, App	C 684	16.8	1.1	45	1	US-08-449-207-3	Sequence 3, App1

685	16.8	1.1	45	1	US-08-123-936-84	Sequence 84, Appl	758	16.6	1.1	32	2	US-08-267-803B-46	Sequence 46, Appl
686	16.8	1.1	45	2	US-08-039-198B-3	Sequence 3, Appl	759	16.6	1.1	32	4	US-08-976-427-18	Sequence 18, Appl
687	16.8	1.1	45	2	US-08-475-228A-84	Sequence 84, Appl	760	16.6	1.1	32	3	US-09-648-312-18	Sequence 18, Appl
688	16.8	1.1	45	2	US-08-680-326-65	Sequence 65, Appl	761	16.6	1.1	33	3	US-09-026-673-5	Sequence 5, Appl
689	16.8	1.1	45	2	US-08-350-260A-548	Sequence 548, App	762	16.6	1.1	33	4	US-08-974-549A-16	Sequence 616, App
690	16.8	1.1	45	2	US-08-982-232-1	Sequence 1, Appl	763	16.6	1.1	33	4	US-09-527-236A-13	Sequence 13, Appl
691	16.8	1.1	45	3	US-08-482-080A-84	Sequence 84, Appl	764	16.6	1.1	33	4	US-09-480-142-5	Sequence 5, Appl
692	16.8	1.1	45	3	US-08-971-918-23	Sequence 23, Appl	765	16.6	1.1	34	4	US-08-974-549A-482	Sequence 482, App
693	16.8	1.1	45	3	US-09-371-710-40	Sequence 40, Appl	766	16.6	1.1	34	4	US-09-529-279-46	Sequence 46, Appl
694	16.8	1.1	45	4	US-09-648-386-40	Sequence 40, Appl	767	16.6	1.1	36	5	PCT-US93-0849-7	Sequence 7, Appl
695	16.8	1.1	45	4	US-09-354-947-84	Sequence 56, Appl	768	16.6	1.1	36	5	PCT-US93-0849-7	Sequence 7, Appl
696	16.8	1.1	45	4	US-09-311-626B-56	Sequence 84, Appl	769	16.6	1.1	38	4	US-07-638-512-2	Sequence 326, App
697	16.8	1.1	45	5	PCT-US93-12388-84	Sequence 13, Appl	770	16.6	1.1	38	4	US-09-042-353-326	Sequence 174, App
698	16.8	1.1	45	5	PCT-US94-14106-13	Sequence 16, Appl	771	16.6	1.1	39	5	US-08-758-417A-174	Sequence 3, Appl
699	16.8	1.1	45	5	PCT-US94-14106-14	Sequence 16, Appl	772	16.6	1.1	39	5	PCT-US93-05240-3	Sequence 3, Appl
700	16.8	1.1	46	4	US-09-065-104-14	Sequence 21, Appl	773	16.6	1.1	39	6	5240848-9	Patent No. 5240848
701	16.8	1.1	46	4	US-09-198-603C-21	Sequence 9, Appl	774	16.6	1.1	39	6	5319127-26	Patent No. 5319127
702	16.8	1.1	46	4	US-08-793-876-9	Sequence 28, Appl	775	16.6	1.1	40	1	US-07-949-488A-6	Sequence 6, Appl
703	16.8	1.1	47	4	US-09-039-982A-28	Sequence 28, Appl	776	16.6	1.1	40	1	US-08-199-507B-15	Sequence 15, Appl
704	16.8	1.1	47	4	US-09-039-982A-29	Sequence 28, Appl	777	16.6	1.1	40	1	US-08-199-507B-27	Sequence 27, Appl
705	16.8	1.1	47	4	US-09-039-641-28	Sequence 28, Appl	778	16.6	1.1	40	1	US-08-199-507B-30	Sequence 30, Appl
706	16.8	1.1	47	4	US-09-039-641-29	Sequence 28, Appl	779	16.6	1.1	40	1	US-08-441-828-15	Sequence 15, Appl
707	16.8	1.1	47	4	US-09-039-641-29	Sequence 28, Appl	780	16.6	1.1	40	1	US-08-441-828-27	Sequence 27, Appl
708	16.8	1.1	47	4	US-09-039-762A-28	Sequence 28, Appl	781	16.6	1.1	40	1	US-08-441-828-30	Sequence 30, Appl
709	16.8	1.1	47	4	US-09-025-769B-106	Sequence 106, App	782	16.6	1.1	41	4	US-09-167-354-4	Sequence 4, Appl
710	16.8	1.1	47	4	US-09-042-92D-28	Sequence 28, Appl	783	16.6	1.1	41	4	US-09-642-855-4	Sequence 4, Appl
711	16.8	1.1	47	4	US-09-042-92D-28	Sequence 28, Appl	784	16.6	1.1	41	4	US-09-642-855-4	Sequence 4, Appl
712	16.8	1.1	47	4	US-09-641-638-1184	Sequence 1184, Ap	785	16.6	1.1	41	4	US-09-438-954-37	Sequence 37, Appl
713	16.8	1.1	47	4	US-09-641-638-1296	Sequence 1296, Ap	786	16.6	1.1	42	1	US-08-411-777-3	Sequence 3, Appl
714	16.8	1.1	47	4	US-08-913-612A-28	Sequence 28, Appl	787	16.6	1.1	42	3	US-09-136-421-2	Sequence 2, Appl
715	16.8	1.1	47	4	US-08-913-612A-29	Sequence 29, Appl	788	16.6	1.1	42	3	US-09-057-088-3	Sequence 3, Appl
716	16.8	1.1	47	4	US-08-478-097A-39	Sequence 39, Appl	789	16.6	1.1	42	4	US-09-358-972-235	Sequence 235, App
717	16.8	1.1	48	3	US-08-674-825-5	Sequence 5, Appl	790	16.6	1.1	42	4	US-09-210-896-10	Sequence 10, Appl
718	16.8	1.1	48	3	US-08-663-824-5	Sequence 7, Appl	791	16.6	1.1	42	4	US-09-430-615-25	Sequence 25, Appl
719	16.8	1.1	48	3	US-09-012-515A-7	Sequence 7, Appl	792	16.6	1.1	43	2	US-08-391-259-9	Sequence 9, Appl
720	16.8	1.1	48	3	US-08-360-144A-7	Sequence 7, Appl	793	16.6	1.1	43	2	US-08-839-425-9	Sequence 9, Appl
721	16.8	1.1	48	3	US-09-485-737B-43	Sequence 43, Appl	794	16.6	1.1	43	4	US-08-983-564A-28	Sequence 28, Appl
722	16.8	1.1	48	4	US-09-012-504A-7	Sequence 7, Appl	795	16.6	1.1	44	4	US-09-042-353-376	Sequence 376, App
723	16.8	1.1	48	4	PCT-US95-06722-7	Sequence 31, Appl	796	16.6	1.1	44	4	US-08-758-417A-226	Sequence 226, App
724	16.8	1.1	49	4	US-09-020-846-59	Sequence 59, Appl	797	16.6	1.1	44	4	US-09-647-390-2	Sequence 2, Appl
725	16.8	1.1	49	4	US-09-538-709-1080	Sequence 1080, Ap	798	16.6	1.1	44	4	US-09-169-605-9	Sequence 9, Appl
726	16.8	1.1	49	4	US-09-538-709-1165	Sequence 1165, Ap	799	16.6	1.1	45	2	US-08-157-185-11	Sequence 11, Appl
727	16.8	1.1	49	4	US-08-171-389-375	Sequence 375, App	800	16.6	1.1	45	2	US-08-893-327-9	Sequence 9, Appl
728	16.8	1.1	49	4	US-08-171-389-375	Sequence 375, App	801	16.6	1.1	45	3	US-08-858-003-22	Sequence 22, Appl
729	16.8	1.1	50	1	US-08-123-936-375	Sequence 375, App	802	16.6	1.1	45	3	US-09-078-166-22	Sequence 22, Appl
730	16.8	1.1	50	1	US-08-477-254A-21	Sequence 21, Appl	803	16.6	1.1	45	3	US-08-281-526B-11	Sequence 11, Appl
731	16.8	1.1	50	1	US-08-477-254A-21	Sequence 21, Appl	804	16.6	1.1	45	4	US-08-997-467-22	Sequence 22, Appl
732	16.8	1.1	50	1	US-08-477-254A-21	Sequence 21, Appl	805	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
733	16.8	1.1	50	1	US-08-477-254A-21	Sequence 21, Appl	806	16.6	1.1	45	4	US-08-639-294-4	Sequence 4, Appl
734	16.8	1.1	50	2	US-08-428-734B-21	Sequence 21, Appl	807	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
735	16.8	1.1	50	2	US-08-428-734B-21	Sequence 21, Appl	808	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
736	16.8	1.1	50	2	US-08-428-734B-21	Sequence 21, Appl	809	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
737	16.8	1.1	50	2	US-08-428-734B-21	Sequence 21, Appl	810	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
738	16.8	1.1	50	2	US-08-428-734B-21	Sequence 21, Appl	811	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
739	16.8	1.1	50	2	US-08-428-734B-21	Sequence 21, Appl	812	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
740	16.8	1.1	50	2	US-08-428-734B-21	Sequence 21, Appl	813	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
741	16.8	1.1	50	2	US-08-428-734B-21	Sequence 21, Appl	814	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
742	16.8	1.1	50	2	US-08-428-734B-21	Sequence 21, Appl	815	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
743	16.8	1.1	50	2	US-08-428-734B-21	Sequence 21, Appl	816	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
744	16.8	1.1	50	2	US-08-428-734B-21	Sequence 21, Appl	817	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
745	16.8	1.1	50	2	US-08-428-734B-21	Sequence 21, Appl	818	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
746	16.8	1.1	50	2	US-08-428-734B-21	Sequence 21, Appl	819	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
747	16.8	1.1	50	2	US-08-428-734B-21	Sequence 21, Appl	820	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
748	16.8	1.1	50	2	US-08-428-734B-21	Sequence 21, Appl	821	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
749	16.8	1.1	50	2	US-08-428-734B-21	Sequence 21, Appl	822	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
750	16.8	1.1	50	2	US-08-428-734B-21	Sequence 21, Appl	823	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
751	16.8	1.1	50	2	US-08-428-734B-21	Sequence 21, Appl	824	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
752	16.8	1.1	50	2	US-08-428-734B-21	Sequence 21, Appl	825	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
753	16.8	1.1	50	2	US-08-428-734B-21	Sequence 21, Appl	826	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
754	16.8	1.1	50	2	US-08-428-734B-21	Sequence 21, Appl	827	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
755	16.8	1.1	50	2	US-08-428-734B-21	Sequence 21, Appl	828	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
756	16.8	1.1	50	2	US-08-428-734B-21	Sequence 21, Appl	829	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl
757	16.8	1.1	50	2	US-08-428-734B-21	Sequence 21, Appl	830	16.6	1.1	45	4	US-09-232-468A-5	Sequence 5, Appl

C 831	16.6	1.1	49	4	US-09-232-468A-6	Sequence 6, Appli	904	16.4	1.0	36	2	US-08-774-310-157	Sequence 157, App
C 832	16.6	1.1	49	4	US-09-318-448-29	Sequence 29, Appli	905	16.4	1.0	36	2	US-08-660-542-13	Sequence 13, Appli
C 833	16.6	1.1	49	4	US-09-538-709-933	Sequence 933, App	906	16.4	1.0	36	2	US-09-038-073-585	Sequence 585, App
C 834	16.6	1.1	49	4	US-09-538-709-965	Sequence 965, App	907	16.4	1.0	36	4	US-08-179-603-13	Sequence 29, Appli
C 835	16.6	1.1	49	4	US-09-538-709-966	Sequence 966, App	908	16.4	1.0	37	2	US-07-814-220-29	Sequence 13, Appli
C 836	16.6	1.1	49	4	US-09-538-709-976	Sequence 976, App	909	16.4	1.0	37	2	US-07-812-421-29	Sequence 29, Appli
C 837	16.6	1.1	49	4	US-09-538-709-987	Sequence 987, App	910	16.4	1.0	38	1	US-08-373-124A-685	Sequence 685, App
C 838	16.6	1.1	49	4	US-09-538-709-987	Sequence 987, App	911	16.4	1.0	38	1	US-08-530-492-17	Sequence 2360, Ap
C 839	16.6	1.1	49	4	US-09-538-709-1011	Sequence 1011, Ap	912	16.4	1.0	38	1	US-08-435-628-685	Sequence 17, Appli
C 840	16.6	1.1	50	1	US-08-171-389-495	Sequence 1073, Ap	913	16.4	1.0	38	1	US-08-435-628-685	Sequence 685, App
C 841	16.6	1.1	50	1	US-08-171-389-495	Sequence 495, App	914	16.4	1.0	38	2	US-08-731-272A-2	Sequence 2360, Ap
C 842	16.6	1.1	50	1	US-08-123-936-495	Sequence 571, App	915	16.4	1.0	38	2	US-08-906-511-17	Sequence 7, Appli
C 843	16.6	1.1	50	1	US-08-123-936-495	Sequence 495, App	916	16.4	1.0	39	2	US-08-647-449-28	Sequence 28, Appli
C 844	16.6	1.1	50	1	US-08-123-936-495	Sequence 571, App	917	16.4	1.0	39	2	US-08-761-277A-62	Sequence 62, Appli
C 845	16.6	1.1	50	1	US-08-416-756A-9	Sequence 9	918	16.4	1.0	40	1	US-07-949-488A-6	Sequence 28, Appli
C 846	16.6	1.1	50	2	US-08-475-228A-495	Sequence 495, App	919	16.4	1.0	40	1	US-08-030-731A-25	Sequence 25, Appli
C 847	16.6	1.1	50	2	US-08-475-228A-495	Sequence 571, App	920	16.4	1.0	40	1	US-08-476-235-27	Sequence 27, Appli
C 848	16.6	1.1	50	2	US-08-793-170-18	Sequence 18, Appli	921	16.4	1.0	40	1	US-07-812-421-29	Sequence 29, Appli
C 849	16.6	1.1	50	3	US-08-482-080A-495	Sequence 495, App	922	16.4	1.0	40	1	US-08-373-124A-685	Sequence 685, App
C 850	16.6	1.1	50	3	US-08-482-080A-495	Sequence 571, App	923	16.4	1.0	40	1	US-08-530-492-17	Sequence 2360, Ap
C 851	16.6	1.1	50	3	US-08-892-873-18	Sequence 18, Appli	924	16.4	1.0	41	2	US-07-814-220-28	Sequence 28, Appli
C 852	16.6	1.1	50	3	US-08-892-873-18	Sequence 495, App	925	16.4	1.0	41	2	US-07-812-421-28	Sequence 28, Appli
C 853	16.6	1.1	50	3	US-08-846-020A-6	Sequence 6, Appli	926	16.4	1.0	41	4	US-09-402-631A-1	Sequence 1, Appli
C 854	16.6	1.1	50	4	US-09-334-765A-18	Sequence 18, Appli	927	16.4	1.0	42	2	US-08-464-136-75	Sequence 75, Appli
C 855	16.6	1.1	50	4	US-09-356-575E-18	Sequence 18, Appli	928	16.4	1.0	42	2	US-08-349-131-75	Sequence 75, Appli
C 856	16.6	1.1	50	4	US-09-025-769B-345	Sequence 345, App	929	16.4	1.0	42	3	US-08-470-297A-75	Sequence 75, Appli
C 857	16.6	1.1	50	4	US-09-025-769B-346	Sequence 346, App	930	16.4	1.0	42	3	US-08-641-638-887	Sequence 887, App
C 858	16.6	1.1	50	4	US-09-025-769B-347	Sequence 347, App	931	16.4	1.0	42	5	PCT-US91-07149-75	Sequence 75, Appli
C 859	16.6	1.1	50	4	US-09-333-820-18	Sequence 18, Appli	932	16.4	1.0	43	1	US-08-406-635-4	Sequence 4, Appli
C 860	16.6	1.1	50	4	US-09-026-276-4	Sequence 4, Appli	933	16.4	1.0	43	1	US-08-406-635-4	Sequence 15, Appli
C 861	16.6	1.1	50	4	US-09-026-276-8	Sequence 8, Appli	934	16.4	1.0	43	3	US-09-025-769B-324	Sequence 15, Appli
C 862	16.6	1.1	50	4	US-09-358-036-40	Sequence 1, Appli	935	16.4	1.0	43	4	US-09-153-310-23	Sequence 23, Appli
C 863	16.6	1.1	50	4	US-09-293-505-6	Sequence 6, Appli	936	16.4	1.0	43	4	US-08-672-213-66	Sequence 66, Appli
C 864	16.6	1.1	50	4	US-09-617-871-6	Sequence 6, Appli	937	16.4	1.0	43	4	US-08-672-213-66	Sequence 66, Appli
C 865	16.6	1.1	50	4	US-09-354-947-495	Sequence 495, App	938	16.4	1.0	43	4	US-09-117-860-44	Sequence 44, Appli
C 866	16.6	1.1	50	4	US-09-354-947-495	Sequence 571, App	939	16.4	1.0	43	4	US-09-117-860-44	Sequence 44, Appli
C 867	16.6	1.1	50	4	US-09-097-239-9	Sequence 9, Appli	940	16.4	1.0	43	4	US-09-117-860-44	Sequence 44, Appli
C 868	16.6	1.1	50	4	US-08-880-865-9	Sequence 9, Appli	941	16.4	1.0	44	2	US-08-637-899-6	Sequence 6, Appli
C 869	16.6	1.1	50	5	PCT-US93-12388-495	Sequence 495, App	942	16.4	1.0	44	2	US-08-962-232-4	Sequence 4, Appli
C 870	16.6	1.1	50	5	PCT-US93-12388-495	Sequence 495, App	943	16.4	1.0	44	2	US-09-128-312-11	Sequence 11, Appli
C 871	16.4	1.0	18	4	US-09-377-155-23	Sequence 23, Appli	944	16.4	1.0	44	2	US-09-370-683-11	Sequence 11, Appli
C 872	16.4	1.0	20	3	US-09-669-974-23	Sequence 23, Appli	945	16.4	1.0	44	4	US-08-171-389-66	Sequence 66, Appli
C 873	16.4	1.0	20	3	US-09-358-382-10	Sequence 10, Appli	946	16.4	1.0	45	1	US-08-123-926-66	Sequence 66, Appli
C 874	16.4	1.0	26	1	US-08-487-141B-43	Sequence 43, Appli	947	16.4	1.0	45	1	US-08-418-123A-1	Sequence 66, Appli
C 875	16.4	1.0	26	2	US-08-927-561-43	Sequence 9, Appli	948	16.4	1.0	45	2	US-08-475-228A-66	Sequence 66, Appli
C 876	16.4	1.0	26	5	PCT-US96-09388-43	Sequence 43, Appli	949	16.4	1.0	45	2	US-08-962-232-16	Sequence 16, Appli
C 877	16.4	1.0	27	1	US-08-387-116-1	Sequence 1, Appli	950	16.4	1.0	45	2	US-08-860-174A-16	Sequence 16, Appli
C 878	16.4	1.0	27	1	US-08-758-306-204	Sequence 204, App	951	16.4	1.0	45	3	US-08-482-080A-66	Sequence 66, Appli
C 879	16.4	1.0	27	2	US-08-413-806-1	Sequence 1, Appli	952	16.4	1.0	45	4	US-09-171-025-9	Sequence 9, Appli
C 880	16.4	1.0	27	3	US-08-884-324-25	Sequence 25, Appli	953	16.4	1.0	45	4	US-09-354-947-66	Sequence 66, Appli
C 881	16.4	1.0	27	3	US-08-584-040-5100	Sequence 5100, Ap	954	16.4	1.0	45	4	PCT-US93-12388-66	Sequence 66, Appli
C 882	16.4	1.0	28	1	US-08-333-565-34	Sequence 34, Appli	955	16.4	1.0	45	5	US-08-484-192-180	Sequence 180, App
C 883	16.4	1.0	28	2	US-08-661-479-34	Sequence 34, Appli	956	16.4	1.0	46	1	US-08-103-739B-3	Sequence 3, Appli
C 884	16.4	1.0	28	3	US-08-863-813A-38	Sequence 38, Appli	957	16.4	1.0	47	1	US-08-474-404-3	Sequence 3, Appli
C 885	16.4	1.0	28	4	US-09-281-481A-2	Sequence 2, Appli	958	16.4	1.0	47	2	US-08-790-963-54	Sequence 54, Appli
C 886	16.4	1.0	28	4	US-09-281-481A-2	Sequence 4, Appli	959	16.4	1.0	47	2	US-08-485-845-3	Sequence 3, Appli
C 887	16.4	1.0	30	6	5520913-28	Patent No. 5520913	960	16.4	1.0	47	2	US-08-482-080A-66	Sequence 66, Appli
C 888	16.4	1.0	30	6	5520913-28	Patent No. 5520913	961	16.4	1.0	47	2	US-08-482-080A-66	Sequence 66, Appli
C 889	16.4	1.0	31	2	US-08-576-626A-10	Sequence 10, Appli	962	16.4	1.0	47	3	US-09-068-738A-13	Sequence 13, Appli
C 890	16.4	1.0	31	2	US-08-258-026A-9	Sequence 9, Appli	963	16.4	1.0	47	4	US-09-371-774-54	Sequence 54, Appli
C 891	16.4	1.0	33	4	US-09-605-785-488	Sequence 488, App	964	16.4	1.0	47	4	US-09-371-774-54	Sequence 54, Appli
C 892	16.4	1.0	33	4	US-09-605-785-488	Sequence 488, App	965	16.4	1.0	47	4	US-09-059-958-3	Sequence 3, Appli
C 893	16.4	1.0	33	5	PCT-US95-07541-9	Sequence 9, Appli	966	16.4	1.0	47	4	US-09-641-638-848	Sequence 848, App
C 894	16.4	1.0	33	5	PCT-US95-07541-9	Sequence 6, Appli	967	16.4	1.0	47	4	PCT-US93-08435-31	Sequence 31, Appli
C 895	16.4	1.0	34	3	US-09-282-966-11	Sequence 11, Appli	968	16.4	1.0	47	5	US-07-550-080A-1	Sequence 36, Appli
C 896	16.4	1.0	35	4	US-09-708-426-6	Sequence 157, App	969	16.4	1.0	48	1	US-08-651-472-1	Sequence 1, Appli
C 897	16.4	1.0	35	5	PCT-US95-06987-3	Sequence 3, Appli	970	16.4	1.0	48	1	US-08-358-579A-36	Sequence 36, Appli
C 898	16.4	1.0	36	1	US-08-311-760A-157	Sequence 13, Appli	971	16.4	1.0	48	3	US-08-358-579A-36	Sequence 36, Appli
C 899	16.4	1.0	36	1	US-08-480-449-13	Sequence 1, Appli	972	16.4	1.0	48	3	US-08-358-579A-36	Sequence 36, Appli
C 900	16.4	1.0	36	1	US-08-608-437-1	Sequence 2, Appli	973	16.4	1.0	48	4	US-09-500-123-3	Sequence 3, Appli
C 901	16.4	1.0	36	2	US-08-452-724A-10	Sequence 10, Appli	974	16.4	1.0	48	4	PCT-US94-09851-36	Sequence 36, Appli
C 902	16.4	1.0	36	2	US-08-452-724A-10	Sequence 585, App	975	16.4	1.0	48	5		
C 903	16.4	1.0	36	2	US-08-585-684B-585	Sequence 585, App	976	16.4	1.0	48	5		


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? SOFTWARE: Patentin Release #1.0, Version #1.30
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/846,020A
? FILING DATE:
? CLASSIFICATION: 424
? ATTORNEY/AGENT INFORMATION:
? NAME: Jarrell Ph.D., Brenda H.
? REGISTRATION NUMBER: 39,223
? REFERENCE/DOCKET NUMBER: 0092662-0012
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (617) 248-5000
? TELEFAX: (617) 248 4000
? INFORMATION FOR SEQ ID NO: 6:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 50 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: both
? TOPOLOGY: not relevant
? MOLECULE TYPE: DNA (genomic)
? IMMEDIATE SOURCE:
? CLONE: No. 6090547mal tandem SPL binding motif with 6 base
? CLONE: pair deletion
? US-08-846-020A-6

Query Match 1.6%; Score 24.6; DB 3; Length 50;
Best Local Similarity 76.9%; Pred. No. 8.3e+03;
Matches 30; Conservative 0; Mismatches 9; Indels 0; Gaps 0.

Oy 1348 GGACGCGGGCGGCGGACCGCGGGCGCGCGCGCGAC 1386
Db 6 GTACTCGGGGCGGGCGGGCGGGCGGGCGCGCGCGGCGAG 44

RESULT 6
US-09-617-871-6
? Sequence 6, Application US/09617871
? Patent No. 6356434
? GENERAL INFORMATION:
? APPLICANT: Drazen M.D., Jeffrey M.
? APPLICANT: In M.D., Kwang-Ho
? APPLICANT: Asano M.D., Koichiro
? APPLICANT: Beler, David
? APPLICANT: Grobholz, James
? TITLE OF INVENTION: 5-Lipoxygenase Gene Sequence
? TITLE OF INVENTION: Polymorphisms and Their Use in Classifying Patients
? NUMBER OF SEQUENCES: 43
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: CHOATE, HALL & STEWART
? STREET: 53 State Street
? CITY: Boston
? STATE: MA
? COUNTRY: USA
? ZIP: 02109-2891
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patentin Release #1.0, Version #1.30
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/09/617,871
? FILING DATE:
? CLASSIFICATION:
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/846,020
? FILING DATE:
? ATTORNEY/AGENT INFORMATION:
? NAME: Jarrell Ph.D., Brenda H.
? REGISTRATION NUMBER: 39,223
? REFERENCE/DOCKET NUMBER: 0092662-0012
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (617) 248-5000
? TELEFAX: (617) 248 4000
? INFORMATION FOR SEQ ID NO: 6:

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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/460,900C
FILING DATE: 5-JUNE-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/435,093
FILING DATE: 4-MAY-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/356,060
FILING DATE: 14-DEC-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/176,427
FILING DATE: 30-DEC-1993
ATTORNEY/AGENT INFORMATION:
NAME: Vincent, Matthew P.
REGISTRATION NUMBER: 36,709
REFERENCE/DOCKET NUMBER: HMV-006.05
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 832-1000
TELEFAX: (617) 832-7000
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-460-900C-43

Query Match 1.5%; Score 24; DB 4; Length 24;
Best Local Similarity 100.0%; Pred. No. 9.9e+03;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 524 ACCGAGGCGCTGGACGAGATGCG 547
|||||
DB 1 ACCGAGGCGCTGGACGAGATGCG 24

RESULT 10
US-08-674-509B-43
Sequence 43, Application US/08674509B
Patent No. 6261786
GENERAL INFORMATION:
APPLICANT: Ingham, Phillip W.
APPLICANT: McMahon, Andrew P.
APPLICANT: Tablin, Clifford J.
APPLICANT: Matlgo, Valeria
TITLE OF INVENTION: SCREENING ASSAYS FOR HEDGEGOG AGONISTS
TITLE OF INVENTION: AND ANTAGONISTS
NUMBER OF SEQUENCES: 48
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY, HOAG & ELIOT LLP
STREET: One Post Office Square
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109-2170
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/674,509B
FILING DATE: 02-JUN-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/460,900
FILING DATE: 05-JUN-1995

ATTORNEY/AGENT INFORMATION:
NAME: Vincent, Matthew P.
REGISTRATION NUMBER: 36,709
REFERENCE/DOCKET NUMBER: HMV-006.05
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-832-1000
TELEFAX: 617-832-7000
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "primer"
US-08-674-509B-43

Query Match 1.5%; Score 24; DB 4; Length 24;
Best Local Similarity 100.0%; Pred. No. 9.9e+03;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 524 ACCGAGGCGCTGGACGAGATGCG 547
|||||
DB 1 ACCGAGGCGCTGGACGAGATGCG 24

RESULT 11
US-08-954-698-43
Sequence 43, Application US/08954698
Patent No. 6271363
GENERAL INFORMATION:
APPLICANT: Ingham, Phillip W.
APPLICANT: McMahon, Andrew P.
APPLICANT: Tablin, Clifford J.
TITLE OF INVENTION: Vertebrate Embryonic Pattern-Inducing
TITLE OF INVENTION: Proteins and Uses Related Thereto
NUMBER OF SEQUENCES: 48
CORRESPONDENCE ADDRESS:
ADDRESSEE: FOLEY, HOAG & ELIOT LLP
STREET: One Post Office Square
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109-2170
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/954,698
FILING DATE: 20-OCT-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/462,386
FILING DATE: 05-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/435,093
FILING DATE: 04-MAY-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/356,060
FILING DATE: 14-DEC-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/176,427
FILING DATE: 30-DEC-1993
ATTORNEY/AGENT INFORMATION:
NAME: Vincent, Matthew P.
REGISTRATION NUMBER: 36,709
REFERENCE/DOCKET NUMBER: HMV-006.10
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-832-1000
TELEFAX: 617-832-7000
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:

LENGTH: 24 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-954-698-43

Query Match 1.5%; Score 24; DB 4; Length 24;
Best Local Similarity 100.0%; Pred. No. 9.9e+03;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 524 ACCGAGGCTGGAGCAGATGCG 547
Db 1 ACCGAGGCTGGAGCAGATGCG 24

RESULT 12
US-08-957-874-43
Sequence 43, Application US/08957874
Patent No. 6384192

GENERAL INFORMATION:
APPLICANT: Ingham, Phillip W.
APPLICANT: McMahon, Andrew P.
TITLE OF INVENTION: Vertebrate Embryonic Pattern-Inducing
NUMBER OF SEQUENCES: 47
CORRESPONDENCE ADDRESS:
ADDRESSEE: POLEY, HOAG & ELIOT LLP
STREET: One Post Office Square
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII(text)

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/957, 874
FILING DATE: 20-OCT-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/462,386
FILING DATE: 5-JUNE-1995

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/435,093
FILING DATE: 4-MAY-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/356,060
FILING DATE: 14-DEC-1994

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/176,427
FILING DATE: 30-DEC-1993
ATTORNEY/AGENT INFORMATION:
NAME: Vincent, Matthew P.
REGISTRATION NUMBER: 36,709

REFERENCE/DOCKET NUMBER: HW-006.09
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 832-1000
TELEFAX: (617) 832-7000
INFORMATION FOR SEQ ID NO: 43:

SEQUENCE CHARACTERISTICS:
LENGTH: 24 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-957-874-43

Query Match 1.5%; Score 24; DB 4; Length 24;
Best Local Similarity 100.0%; Pred. No. 9.9e+03;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 524 ACCGAGGCTGGAGCAGATGCG 547
Db 1 ACCGAGGCTGGAGCAGATGCG 24

RESULT 13
US-08-258-026A-13
Sequence 13, Application US/08258026A
Patent No. 5516637

GENERAL INFORMATION:
APPLICANT: Huang, Grace P.
APPLICANT: Rhode, Peter R.
APPLICANT: Stinson, Jeffrey R.
TITLE OF INVENTION: A METHOD FOR DISPLAYING PROTEINS
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: David G. Conlin, DIKE, BRONSTEIN, ROBERTS &
STREET: 130 WATER STREET
CITY: BOSTON
STATE: MASSACHUSETTS
COUNTRY: US
ZIP: 02109

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/258,026A
FILING DATE: 10-JUN-1994
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: Resnick, David R.
REGISTRATION NUMBER: 34235
REFERENCE/DOCKET NUMBER: 42838
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 523-3400
TELEFAX: (617) 523-6400

INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 45 base pairs
TYPE: nucleic acid
STRANDEDNESS: unknown
TOPOLOGY: unknown

US-08-258-026A-13

Query Match 1.5%; Score 24; DB 1; Length 45;
Best Local Similarity 75.0%; Pred. No. 1.1e+04;
Matches 30; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

OY 1341 CGGCGGAGCAGCGCGCGGACCCGCGCGCGG 1380
Db 2 GTGGCGGTGGCAGCGCGGTGTTCGCGGCGCGG 41

RESULT 14
US-09-813-781-129
Sequence 129, Application US/09813781
Patent No. 6405989

GENERAL INFORMATION:
APPLICANT: WEIDANZ, JON A.
APPLICANT: CARD, KIMBERLY F.
TITLE OF INVENTION: FUSION PROTEINS COMPRISING BACTERIOPHAGE COAT PROTEIN
FILE REFERENCE: 46745(1758)
CURRENT APPLICATION NUMBER: US/09/813,781
CURRENT FILING DATE: 2001-03-22
NUMBER OF SEQ ID NOS: 130

SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 129
LENGTH: 45
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-09-813-781-129

Query Match
Best Local Similarity 1.5%; Score 24; DB 4; Length 45;
Matches 30; Conservative 0; Pred. No. 1.1e+04;
Mismatches 10; Indels 0; Gaps 0;

QY 1341 GCGGCGGACAGCGGCGGCGGACCGCGGCGGCGGCGG 1380
DB 2 GTGGCGGTGACGCGGCGGCGGCGGCGGCGGCGGCGGCGG 41

RESULT 15

PCT-US95-07541-13
Sequence 13, Application PC/TUS9507541
GENERAL INFORMATION:

APPLICANT: Huang, Grace P.
APPLICANT: Rhode, Peter R.
APPLICANT: Stinson, Jeffrey R.
APPLICANT: Wong, Hing C.
TITLE OF INVENTION: A METHOD FOR DISPLAYING
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESSES:

ADDRESSEE: David G. Conlin, DIKE, BRONSTEIN,
ADDRESSEE: ROBERTS & CUSHMAN
STREET: 130 WATER STREET
CITY: BOSTON
STATE: MASSACHUSETTS
COUNTRY: US
ZIP: 02109

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/07541
FILING DATE:

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/258,026
FILING DATE: 10-JUN-1994
ATTORNEY/AGENT INFORMATION:

NAME: Resnick, David R.
REGISTRATION NUMBER: 34235
REFERENCE/DOCKET NUMBER: 42838
TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 523-3400
TELEFAX: (617) 523-6400
TELEX: 200291 STRE UR
INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:
LENGTH: 45 base pairs
TYPE: nucleic acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
PCT-US95-07541-13

Query Match
Best Local Similarity 1.5%; Score 24; DB 5; Length 45;
Matches 30; Conservative 0; Pred. No. 1.1e+04;
Mismatches 10; Indels 0; Gaps 0;

QY 1341 GCGGCGGACAGCGGCGGCGGACCGCGGCGGCGGCGG 1380
DB 2 GTGGCGGTGACGCGGCGGCGGCGGCGGCGGCGGCGGCGG 41

RESULT 16

US-08-068-747-2/C
Sequence 2, Application US/08068747
Patent No. 5695933
GENERAL INFORMATION:

APPLICANT: Schalling, Martin
APPLICANT: Hudson, Thomas J.
APPLICANT: Housman, David E.
TITLE OF INVENTION: Direct Determination of Expanded
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESSES:

ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
STREET: Two Militia Drive
CITY: Lexington
STATE: Massachusetts
COUNTRY: USA
ZIP: 02173

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/068,747
FILING DATE: 28-MAY-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:

NAME: Granahan, Patricia
REGISTRATION NUMBER: 32,227
REFERENCE/DOCKET NUMBER: MIT-6141
TELECOMMUNICATION INFORMATION:

TELEPHONE: 617-861-6240
TELEFAX: 617-861-9540
INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:
LENGTH: 30 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "Synthetic"
US-08-068-747-2

Query Match
Best Local Similarity 1.5%; Score 23.6; DB 1; Length 30;
Matches 26; Conservative 0; Pred. No. 1.2e+04;
Mismatches 4; Indels 0; Gaps 0;

QY 1354 GCGGCGGACAGCGGCGGCGGCGGCGGCGGCGGCGG 1383
DB 30 GCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1

RESULT 17

US-09-499-884-12
Sequence 12, Application US/09499884
Patent No. 6265172
GENERAL INFORMATION:

APPLICANT: St. Clair, Daret
APPLICANT: Umano, Muneyasu
APPLICANT: Kasarskis, Edward
TITLE OF INVENTION: DIAGNOSTIC TEST AND THERAPY FOR MANGANESE SUPEROXIDE DISMUTASE
FILE REFERENCE: 50229-180
CURRENT APPLICATION NUMBER: US/09/499,884
CURRENT FILING DATE: 2000-02-08
NUMBER OF SEQ ID NOS: 12
SOFTWARE: Patentin version 3.0
SEQ ID NO 12

LENGTH: 38
TYPE: DNA

ORGANISM: Homo sapiens
US-09-499-884-12

Query Match 1.5%; Score 23.6; DB 4; Length 38;
Best Local Similarity 76.3%; Pred. No. 1.3e+04;
Matches 29; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 1340 CGCGGGGGGACAGCGGCGGACCGCGGGCGG 1377
DB 1 CGCGGGCGGGCGCGCGGGGGGGCGGCGCGCGG 38

RESULT 18
US-09-497-933A-19
Sequence 19, Application US/09497933A
Patent No. 6329147

GENERAL INFORMATION:
APPLICANT: Wagner, Robert Jr. E.
TITLE OF INVENTION: METHODS FOR DETECTION OF A TRIPLET REPEAT BLOCK AND A
TITLE OF INVENTION: FUNCTIONAL MISMATCH BINDING PROTEIN IN A BIOLOGICAL
TITLE OF INVENTION: FLUID SAMPLE
FILE REFERENCE: 9408-044
CURRENT APPLICATION NUMBER: US/09/497,933A
CURRENT FILING DATE: 2000-02-04
NUMBER OF SEQ ID NOS: 25
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 19
LENGTH: 48
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Probe
NAME/KEY: modified_base
LOCATION: (1)..(9)
OTHER INFORMATION: n = a, c, g or t
NAME/KEY: modified_base
LOCATION: (40)..(48)
OTHER INFORMATION: n = a, c, g or t
US-09-497-933A-19

Query Match 1.5%; Score 23.6; DB 4; Length 48;
Best Local Similarity 86.7%; Pred. No. 1.3e+04;
Matches 26; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1354 CGCGGGCGGGACCGCGGGGGCGGCGG 1383
DB 10 CGCGGGCGGGCGGGCGGGGGCGGCGG 39

RESULT 19
US-09-930-181-13
Sequence 13, Application US/09930181
Patent No. 6455292

GENERAL INFORMATION:
APPLICANT: Origene Technologies
TITLE OF INVENTION: Full-length Serine Protein Kinase in Brain and Pancreas
FILE REFERENCE: 160 101 v1
CURRENT APPLICATION NUMBER: US/09/930,181
CURRENT FILING DATE: 2001-08-16
NUMBER OF SEQ ID NOS: 18
SOFTWARE: Patentin version 3.0
SEQ ID NO 13
LENGTH: 50
TYPE: DNA
ORGANISM: Homo sapiens
US-09-930-181-13

Query Match 1.5%; Score 23.6; DB 4; Length 50;
Best Local Similarity 69.6%; Pred. No. 1.3e+04;
Matches 32; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 1328 GCGCGACGACGCGCGGGGACAGCGGCGGCGGCGGCGG 1373
1 1111 11 111111 11 11111111 11 1111 1

DB 5 GGGCGGGGGCGCGGGCGCGGCGCTCGGCGGCGGCGGCGGCGG 50

RESULT 20
US-08-748-591-12/c
Sequence 12, Application US/08748591
Patent No. 5759811

GENERAL INFORMATION:
APPLICANT: Epstein, Ervin
APPLICANT: Hu, Zhilan
APPLICANT: Bonifas, Jeanette
TITLE OF INVENTION: Mutant Human Hedgehog Gene
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish and Richardson
STREET: 2200 Sand Hill Road
CITY: Menlo Park
STATE: CA
COUNTRY: USA
ZIP: 94025

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/748,591
FILING DATE:
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: Sherwood, Pamela J
REGISTRATION NUMBER: 36,677
REFERENCE/DOCKET NUMBER: 06510/067001
TELEPHONE: (415) 322-5070
TELEFAX: (415) 854-0875
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 25 base pairs
TYPE: nucleic acid
STRANDEDNESS: single

TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-748-591-12

Query Match 1.5%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 1.3e+04;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 616 CAGCAAGTACGCGATGCTGCCCGC 640
DB 25 CAGCAAGTACGCGATGCTGCTCGC 1

RESULT 21
US-09-083-123-5/c
Sequence 5, Application US/09083123
Patent No. 6326143

GENERAL INFORMATION:
APPLICANT: Orum, Hendrik
APPLICANT: Seeger, Corina
TITLE OF INVENTION: Method for Generating Multiple Double Stranded Nucleic
TITLE OF INVENTION: Acids
FILE REFERENCE: sequence listing
CURRENT APPLICATION NUMBER: US/09/083,123
CURRENT FILING DATE: 1998-05-22
EARLIER APPLICATION NUMBER: EP 95118600.6
EARLIER FILING DATE: 1995-11-25
EARLIER APPLICATION NUMBER: PCT/EP96/05149
EARLIER FILING DATE: 1996-11-22
NUMBER OF SEQ ID NOS: 8
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 5

LENGTH: 32
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: made by humans
US-09-083-123-5

Query Match 1.4% Score 22.4; DB 4; Length 32;
Best Local Similarity 81.2%; Pred. No. 2.1e+04;
Matches 26; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

OY 1543 CCGGGGGGGGGGAGGAGCGGCGGAGGCGG 1574
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DB 32 CCGGGGGGGGGGAGGAGCGGCGGAGGCGG 1

RESULT 22
US-09-325-256-30
Sequence 30, Application US/09325256
Patent No. 6444793

GENERAL INFORMATION:
APPLICANT: PEPINSKY, R. BLAKE
APPLICANT: BAKER, DARREN P.
APPLICANT: MEN, DINGYI
APPLICANT: WILLIAMS, KEVIN P.
APPLICANT: GARGER, ELLEN A.
APPLICANT: TAYLOR, FREDERICK R.
APPLICANT: GALDES, ALPHONSE
APPLICANT: PORTER, JEFFREY
TITLE OF INVENTION: HYDROPHOBICALLY-MODIFIED PROTEIN COMPOSITIONS AND
FILE REFERENCE: BIV-067.01
CURRENT APPLICATION NUMBER: US/09/325,256
CURRENT FILING DATE: 1999-06-03
PRIOR APPLICATION NUMBER: 60/099,800
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/078,935
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/089,685
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/067,423
PRIOR FILING DATE: 1997-12-03
PRIOR APPLICATION NUMBER: PCT/US98/25676
PRIOR FILING DATE: 1998-12-03
NUMBER OF SEQ ID NOS: 31
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 30
LENGTH: 47
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-325-256-30

Query Match 1.4% Score 22; DB 4; Length 47;
Best Local Similarity 100.0%; Pred. No. 2.7e+04;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 223 CGGACCGGGGCGGCGGTTTCGGG 244
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DB 26 CGGACCGGGGCGGCGGTTTCGGG 47

RESULT 23
US-08-340-045-7
Sequence 7, Application US/08340045
Patent No. 5637495
GENERAL INFORMATION:
APPLICANT: AVIV, HATIM
APPLICANT: GORECKI, MARIAN
APPLICANT: LEVANON, AVIGDOR
APPLICANT: OPPENHEIM, AMOS
APPLICANT: VOGEL, TIKVA

APPLICANT: ZEELON, ELISHA
APPLICANT: ZEEVI, MENACHEM
TITLE OF INVENTION: PLASMIDS FOR PRODUCTION OF HUMAN GROWTH
TITLE OF INVENTION: HORMONE OR POLYPEPTIDE ANALOG THEREOF, HOSTS CONTAINING
TITLE OF INVENTION: THE PLASMIDS, PRODUCTS MANUFACTURED THEREBY, AND RELATED
TITLE OF INVENTION: METHODS
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
ADDRESS: COOPER & DUNHAM LLP
STREET: 1185 AVENUE OF THE AMERICAS
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA

ZIP: 10036

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/340,045

FILING DATE: 14-NOV-1994

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: WHITE, JOHN P.

REGISTRATION NUMBER: 28,678

REFERENCE/DOCKET NUMBER: 20065-G/JPM/GJG

TELEPHONE: 212-278-0400

TELEFAX: 212-391-0525

INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:

LENGTH: 35 base pairs

TYPE: nucleic acid

STRANDEDNESS: unknown

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

HYPOHETICAL: NO

ANTI-SENSE: NO

US-08-340-045-7

Query Match 1.4% Score 21.8; DB 1; Length 35;
Best Local Similarity 78.8%; Pred. No. 2.8e+04;
Matches 26; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

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DB 3 ACCTGTGACAGTGTGAGCCCGGAGCGCG 35

RESULT 24
US-08-871-302A-7
Sequence 7, Application US/08871302A
Patent No. 6054291
GENERAL INFORMATION:

APPLICANT: AVIV, HATIM

APPLICANT: GORECKI, MARIAN

APPLICANT: LEVANON, AVIGDOR

APPLICANT: OPPENHEIM, AMOS

APPLICANT: VOGEL, TIKVA

APPLICANT: ZEELON, ELISHA

APPLICANT: ZEEVI, MENACHEM

TITLE OF INVENTION: PLASMIDS FOR PRODUCTION OF HUMAN GROWTH

TITLE OF INVENTION: HORMONE OR POLYPEPTIDE ANALOG THEREOF, HOSTS CONTAINING

TITLE OF INVENTION: THE PLASMIDS, PRODUCTS MANUFACTURED THEREBY, AND RELATED

TITLE OF INVENTION: METHODS

NUMBER OF SEQUENCES: 32

CORRESPONDENCE ADDRESS:

ADDRESS: COOPER & DUNHAM LLP

STREET: 1185 AVENUE OF THE AMERICAS

CITY: NEW YORK

STATE: NEW YORK

COUNTRY: USA

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1 ZIP: 10036
2
3 COMPUTER READABLE FORM:
4
5 MEDIUM TYPE: Floppy disk
6
7 COMPUTER: IBM PC compatible
8
9 OPERATING SYSTEM: PC-DOS/MS-DOS
10
11 SOFTWARE: PatentIn Release #1.0, Version
12
13 CURRENT APPLICATION DATA:
14
15 APPLICATION NUMBER: US/08/871,302A
16
17 FILING DATE:
18
19 CLASSIFICATION:
20
21 PRIOR APPLICATION DATA:
22
23 APPLICATION NUMBER: 08/340,045
24
25 FILING DATE:
26
27 ATTORNEY/AGENT INFORMATION:
28
29 NAME: WHITE, JOHN P.
30
31 REGISTRATION NUMBER: 28,678
32
33 REFERENCE/DOCKET NUMBER: 20065-G/JPW/GJG
34
35 TELECOMMUNICATION INFORMATION:
36
37 TELEPHONE: 212-278-0400
38
39 TELEFAX: 212-391-0525
40
41 INFORMATION FOR SEQ ID NO: 7:
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43 SEQUENCE CHARACTERISTICS:
44
45 LENGTH: 35 base pairs
46
47 TYPE: nucleic acid
48
49 STRANDEDNESS: unknown
50
51 TOPOLOGY: linear
52
53 MOLECULE TYPE: DNA (genomic)
54
55 HYPOTHETICAL: NO
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57 ANTI-SENSE: NO
58
59 US-08-871-302A-7

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Query Match	1.4%;	Score 21.8;	DB 3;	Length 35;
Best Local Similarity	78.8%;	Pred. No. 2.8e+04;		
Matches	26;	Conservative	0;	Mismatches 7;
			Indels	0;
			Gaps	0;

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Db      3  AGCTGTCCAGGTGCTGAGCCCGGAGCACACG 35

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RESULT 25
US-09-485-737B-5
; Sequence 5, Application US/09485737B
; Patent No. 6350860
; GENERAL INFORMATION:
; APPLICANT: Buysse, Marie-Ange
; APPLICANT: Sablon, Erwin
; TITLE OF INVENTION: INTERFERON-gamma-BINDING MOLECULES FOR TREATING SEPTIC SHOCK
; TITLE OF INVENTION: CACHEXIA, IMMUNE DISEASES AND SKIN DISORDERS
; FILE REFERENCE: INNS:015
; CURRENT APPLICATION NUMBER: US/09/485,737B
; CURRENT FILING DATE: 2000-02-14
; PRIOR APPLICATION NUMBER: PCT/EP 98/05165
; PRIOR FILING DATE: 1998-08-14
; PRIOR APPLICATION NUMBER: EPO 98870139.7
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: EPO 97870122.5
; PRIOR FILING DATE: 1997-08-18
; NUMBER OF SEQ ID NOS: 104
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 5
; LENGTH: 40
; TYPE: DNA
; ORGANISM: UNKNOWN
; FEATURE:
; OTHER INFORMATION: GENOMIC
US-09-485-737B-5

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Query Match	1.48;	Score 21.6;	DB 4;	Length 40;
Best Local Similarity	75.0%;	Pred. No. 3.1e+04;		
Matches 27;	Conservative 0;	Mismatches 9;	Indels 0;	Gaps 0;
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GenCore version 5.1.4.p5.4578
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Run on: March 13, 2003, 23:14:59 ; Search time 140 Seconds

(without alignments)

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Title: US-10-001-844-3

Perfect score: 1576

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Gapop 10.0 , Gapext 1.0

Searched: 501302 seqs, 350932545 residues

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Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

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- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
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- 14: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	31.4	2.0	50	10	US-09-782-650-16
2	22	1.4	29	9	US-09-883-848A-37
3	22	1.4	29	10	US-09-828-034-7
4	21.4	1.4	45	9	US-10-006-856A-151
5	20.8	1.3	45	9	US-10-135-984-6
6	20.8	1.3	46	9	US-10-135-984-4
7	20.8	1.3	46	9	US-10-135-984-5
8	20.8	1.3	35	9	US-09-888-376-172
9	20.4	1.3	41	9	US-10-027-961A-14
10	20.4	1.3	49	10	US-09-740-002-9
11	20.4	1.3	48	12	US-10-072-152-32
12	20.2	1.3	45	9	US-09-992-598-122
13	20	1.3	45	9	US-09-989-293A-122
14	20	1.3	45	9	US-09-989-735-122
15	20	1.3	45	9	US-09-989-444-122
16	20	1.3	45	9	US-09-989-730-122
17	20	1.3	45	9	US-09-989-436-122
18	20	1.3	45	9	US-09-991-181-122
19	20	1.3	45	9	US-09-991-181-122

20	20	1.3	45	9	US-09-993-687-122	Sequence 122, App
21	20	1.3	45	9	US-09-989-734-122	Sequence 122, App
22	20	1.3	45	9	US-09-997-653-122	Sequence 122, App
23	20	1.3	45	9	US-09-993-667-122	Sequence 122, App
24	20	1.3	45	9	US-10-211-069-35	Sequence 35, Appl
25	20	1.3	45	9	US-09-990-438-122	Sequence 122, App
26	20	1.3	45	9	US-09-990-562-122	Sequence 122, App
27	20	1.3	45	9	US-09-997-428-122	Sequence 122, App
28	20	1.3	45	9	US-09-997-666-122	Sequence 122, App
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30	20	1.3	45	9	US-09-989-726-122	Sequence 122, App
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43	20	1.3	45	9	US-09-989-722-122	Sequence 122, App
44	20	1.3	45	9	US-09-989-722-122	Sequence 122, App
45	20	1.3	45	9	US-09-989-722-122	Sequence 122, App
46	19.4	1.2	45	9	US-09-861-257-29	Sequence 29, Appl
47	19.4	1.2	45	9	US-09-765-555-25	Sequence 25, Appl
48	19.2	1.2	36	9	US-09-997-868-28	Sequence 28, Appl
49	19	1.2	30	9	US-09-883-848A-36	Sequence 36, Appl
50	19	1.2	36	9	US-09-966-781A-15	Sequence 15, Appl
51	19	1.2	41	9	US-09-749-873-105	Sequence 105, Appl
52	19	1.2	47	10	US-09-785-632A-7	Sequence 7, Appl
53	19	1.2	50	10	US-09-782-650-16	Sequence 16, Appl
54	18.8	1.2	40	9	US-09-876-082-75	Sequence 75, Appl
55	18.8	1.2	40	9	US-09-876-082-75	Sequence 75, Appl
56	18.8	1.2	42	9	US-09-876-082-56	Sequence 56, Appl
57	18.8	1.2	47	9	US-09-876-082-56	Sequence 56, Appl
58	18.8	1.2	47	9	US-09-876-082-56	Sequence 56, Appl
59	18.8	1.2	50	10	US-09-874-377-486	Sequence 486, Appl
60	18.6	1.2	45	9	US-09-905-291A-313	Sequence 313, Appl
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62	18.6	1.2	45	9	US-09-989-734-122	Sequence 122, App
63	18.6	1.2	45	9	US-09-997-653-122	Sequence 122, App
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94	18.6	1.2	45	9	US-09-903-749A-313	Sequence 313, App	167	17.6	1.1	50	9	US-10-036-949-39	Sequence 39, Appl
95	18.6	1.2	45	9	US-09-903-786-313	Sequence 313, App	168	17.6	1.1	50	10	US-09-740-002-7	Sequence 7, Appl
96	18.6	1.2	45	9	US-09-900-437-122	Sequence 122, App	169	17.6	1.1	50	10	US-09-918-029-17	Sequence 17, Appl
97	18.6	1.2	45	9	US-09-989-156-122	Sequence 122, App	170	17.6	1.1	50	12	US-10-038-211-17	Sequence 17, Appl
98	18.6	1.2	45	10	US-09-989-722-122	Sequence 122, App	171	17.4	1.1	31	9	US-09-912-263-496	Sequence 496, App
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102	18.6	1.2	45	10	US-09-989-731-122	Sequence 122, App	175	17.4	1.1	31	10	US-09-801-274-959	Sequence 959, App
103	18.6	1.2	45	10	US-09-989-732-122	Sequence 122, App	176	17.4	1.1	31	10	US-09-801-274-1211	Sequence 1211, App
104	18.6	1.2	45	10	US-09-991-073-122	Sequence 122, App	177	17.4	1.1	35	9	US-09-771-009-70	Sequence 70, Appl
105	18.6	1.2	45	10	US-09-909-320-313	Sequence 313, App	178	17.4	1.1	35	10	US-09-771-009-70	Sequence 70, Appl
106	18.6	1.2	45	10	US-09-990-442-122	Sequence 122, App	179	17.4	1.1	45	9	US-10-007-132-7	Sequence 7, Appl
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108	18.6	1.2	45	10	US-09-993-604-122	Sequence 122, App	181	17.4	1.1	50	8	US-08-978-633-28	Sequence 28, Appl
109	18.6	1.2	45	10	US-09-990-456-122	Sequence 122, App	182	17.4	1.1	50	8	US-08-978-633-29	Sequence 28, Appl
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111	18.6	1.2	45	10	US-09-909-0888-313	Sequence 313, App	184	17.4	1.1	50	8	US-08-978-634-29	Sequence 28, Appl
112	18.4	1.2	28	9	US-09-888-326-171	Sequence 171, App	185	17.4	1.1	50	8	US-08-978-637-29	Sequence 28, Appl
113	18.4	1.2	31	10	US-09-801-274-1108	Sequence 1108, App	186	17.4	1.1	50	8	US-08-978-632-28	Sequence 28, Appl
114	18.4	1.2	45	9	US-09-944-413-53	Sequence 53, Appl	187	17.4	1.1	50	8	US-08-978-632-29	Sequence 28, Appl
115	18.4	1.2	45	9	US-09-944-403-53	Sequence 53, Appl	188	17.4	1.1	50	9	US-10-073-300-14	Sequence 14, Appl
116	18.4	1.2	45	9	US-09-944-403-53	Sequence 53, Appl	189	17.4	1.1	50	9	US-10-073-300-15	Sequence 15, Appl
117	18.4	1.2	45	9	US-09-944-944-53	Sequence 53, Appl	190	17.4	1.1	50	9	US-10-073-300-15	Sequence 23, Appl
118	18.4	1.2	45	9	US-09-944-907-53	Sequence 53, Appl	191	17.4	1.1	24	9	US-09-765-555-23	Sequence 23, Appl
119	18.4	1.2	45	9	US-09-944-929-53	Sequence 53, Appl	192	17.2	1.1	24	9	US-09-837-621-31	Sequence 31, Appl
120	18.4	1.2	45	9	US-09-300-425B-11	Sequence 11, Appl	193	17.2	1.1	30	9	US-09-788-038-31	Sequence 31, Appl
121	18.4	1.2	45	10	US-09-866-028-53	Sequence 53, Appl	194	17.2	1.1	24	10	US-09-953-052-21	Sequence 21, Appl
122	18.4	1.2	45	10	US-09-944-449-53	Sequence 53, Appl	195	17.2	1.1	31	9	US-09-912-263-286	Sequence 286, App
123	18.4	1.2	45	10	US-09-944-457-53	Sequence 53, Appl	196	17.2	1.1	42	9	US-09-845-160-13	Sequence 13, Appl
124	18.4	1.2	45	10	US-09-945-587-53	Sequence 53, Appl	197	17.2	1.1	48	10	US-09-971-798-25	Sequence 25, Appl
125	18.4	1.2	45	10	US-09-945-015-53	Sequence 53, Appl	198	17.2	1.1	49	10	US-09-971-798-25	Sequence 25, Appl
126	18.4	1.2	45	10	US-09-944-396-53	Sequence 53, Appl	199	17.2	1.1	48	10	US-09-740-002-8	Sequence 8, Appl
127	18.4	1.2	45	10	US-09-944-097-53	Sequence 53, Appl	200	17.2	1.1	50	10	US-09-765-555-25	Sequence 25, Appl
128	18.4	1.2	45	10	US-09-944-432-53	Sequence 53, Appl	201	17.2	1.1	50	10	US-09-874-547-5	Sequence 5, Appl
129	18.4	1.2	45	10	US-09-943-762-53	Sequence 53, Appl	202	17.2	1.1	25	12	US-09-874-547-9	Sequence 9, Appl
130	18.4	1.2	45	10	US-09-944-654-53	Sequence 53, Appl	203	17.2	1.1	32	10	US-10-101-040-5	Sequence 5, Appl
131	18.4	1.2	45	10	US-09-943-851A-53	Sequence 53, Appl	204	17.2	1.1	31	10	US-09-731-030A-3	Sequence 3, Appl
132	18.4	1.2	47	9	US-09-908-153B-8	Sequence 8, Appl	205	17.2	1.1	32	10	US-09-828-447-31	Sequence 31, Appl
133	18.4	1.2	49	10	US-09-785-632A-8	Sequence 8, Appl	206	17.2	1.1	33	9	US-09-910-120-50	Sequence 50, Appl
134	18.4	1.2	31	10	US-09-911-935A-10	Sequence 10, Appl	207	17.2	1.1	33	9	US-10-027-961A-15	Sequence 15, Appl
135	18.2	1.2	39	9	US-09-900-379-37	Sequence 37, Appl	208	17.2	1.1	33	9	US-09-227-718-7	Sequence 7, Appl
136	18.2	1.2	39	9	US-10-080-980-26	Sequence 26, Appl	209	17.2	1.1	35	9	US-09-991-470-7	Sequence 7, Appl
137	18.2	1.2	39	10	US-09-848-164-37	Sequence 37, Appl	210	17.2	1.1	35	10	US-09-776-490-65	Sequence 65, Appl
138	18.2	1.2	40	9	US-09-943-722-114	Sequence 114, App	211	17.2	1.1	35	10	US-09-776-491-65	Sequence 65, Appl
139	18.2	1.2	42	9	US-09-861-257-27	Sequence 27, Appl	212	17.2	1.1	36	9	US-09-783-580-12	Sequence 12, Appl
140	18.2	1.2	45	10	US-09-893-615-71	Sequence 71, Appl	213	17.2	1.1	37	9	US-09-957-995A-24	Sequence 24, Appl
141	18.2	1.2	35	9	US-09-735-056-4	Sequence 4, Appl	214	17.2	1.1	37	9	US-10-074-302-8	Sequence 8, Appl
142	18.2	1.2	43	10	US-09-845-160-12	Sequence 12, Appl	215	17.2	1.1	37	9	US-10-096-723-8	Sequence 8, Appl
143	18.2	1.2	43	10	US-09-894-788-20	Sequence 20, Appl	216	17.2	1.1	37	9	US-10-146-329-2	Sequence 2, Appl
144	18.2	1.2	43	10	US-09-894-796-20	Sequence 20, Appl	217	17.2	1.1	37	9	US-09-887-854-8	Sequence 8, Appl
145	18.2	1.2	31	9	US-09-912-263-430	Sequence 430, App	218	17.2	1.1	37	10	US-10-067-790-49	Sequence 49, Appl
146	17.8	1.1	31	9	US-09-801-274-125	Sequence 125, App	219	17.2	1.1	39	9	US-10-067-892-49	Sequence 49, Appl
147	17.8	1.1	31	10	US-09-801-274-1526	Sequence 1526, App	220	17.2	1.1	39	9	US-09-539-382-49	Sequence 49, Appl
148	17.8	1.1	39	9	US-10-067-790-45	Sequence 45, Appl	221	17.2	1.1	39	9	US-10-067-893-49	Sequence 49, Appl
149	17.8	1.1	39	9	US-10-067-892-45	Sequence 45, Appl	222	17.2	1.1	39	10	US-09-874-547-26	Sequence 26, Appl
150	17.8	1.1	39	9	US-09-539-382-45	Sequence 45, Appl	223	17.2	1.1	39	10	US-09-874-547-26	Sequence 29, Appl
151	17.8	1.1	39	9	US-10-067-893-45	Sequence 45, Appl	224	17.2	1.1	40	10	US-09-245-602-128	Sequence 128, App
152	17.8	1.1	39	10	US-09-760-574-57	Sequence 57, Appl	225	17.2	1.1	42	9	US-10-225-322-12	Sequence 12, Appl
153	17.8	1.1	39	10	US-09-892-074-7	Sequence 7, Appl	226	17.2	1.1	42	10	US-09-388-089B-14	Sequence 14, Appl
154	17.6	1.1	32	10	US-09-896-650A-20	Sequence 20, Appl	227	17.2	1.1	44	10	US-09-877-935-5	Sequence 5, Appl
155	17.6	1.1	40	9	US-09-826-025-19	Sequence 19, Appl	228	17.2	1.1	45	9	US-10-012-896-784	Sequence 784, Appl
156	17.6	1.1	41	9	US-09-733-042-23	Sequence 23, Appl	229	17.2	1.1	45	9	US-10-135-984-6	Sequence 6, Appl
157	17.6	1.1	41	10	US-09-875-519A-1	Sequence 1, Appl	230	17.2	1.1	45	9	US-09-896-793-784	Sequence 784, App
158	17.6	1.1	42	9	US-10-083-590-7	Sequence 7, Appl	231	17.2	1.1	45	9	US-09-896-793-784	Sequence 784, App
159	17.6	1.1	44	7	US-08-325-278-7	Sequence 269, App	232	17.2	1.1	45	10	US-09-759-143-784	Sequence 784, App
160	17.6	1.1	47	7	US-09-853-526-269	Sequence 269, App	233	17.2	1.1	45	10	US-09-780-669-784	Sequence 784, App
161	17.6	1.1	47	10	US-09-912-165-7	Sequence 269, App	234	17.2	1.1	45	10	US-09-822-827-784	Sequence 784, App
162	17.6	1.1	47	10	US-09-901-488A-269	Sequence 269, App	235	17.2	1.1	45	10	US-09-850-165-24	Sequence 24, Appl
163	17.6	1.1	48	9	US-09-978-917A-29	Sequence 29, Appl	236	17.2	1.1	49	9	US-09-785-632A-15	Sequence 15, Appl
164	17.6	1.1	48	9	US-09-978-917A-30	Sequence 30, Appl	237	17.2	1.1	49	9	US-09-894-844-137	Sequence 137, App
165	17.6	1.1	50	9	US-10-125-751-17	Sequence 17, Appl	238	17.2	1.1	49	10	US-09-740-002-10	Sequence 10, Appl

C 239	17	1.1	49	10	US-09-785-632A-9	Sequence 9, Appli	C 312	16.4	1.0	28	10	US-09-867-475-4	Sequence 4, Appli
C 240	17	1.1	50	10	US-09-990-080-17	Sequence 17, Appli	C 313	16.4	1.0	30	9	US-09-841-236C-3	Sequence 3, Appli
C 241	16.8	1.1	30	9	US-10-057-467-13	Sequence 13, Appl	C 314	16.4	1.0	31	10	US-09-801-274-162	Sequence 162, App
C 242	16.8	1.1	31	10	US-09-801-274-531	Sequence 531, App	C 315	16.4	1.0	31	10	US-09-801-274-740	Sequence 740, App
C 243	16.8	1.1	31	10	US-09-801-274-1526	Sequence 1526, Ap	C 316	16.4	1.0	31	10	US-09-801-274-825	Sequence 825, App
C 244	16.8	1.1	36	8	US-08-786-531B-8	Sequence 8, Appli	C 317	16.4	1.0	31	10	US-09-801-274-1737	Sequence 1737, Ap
C 245	16.8	1.1	36	10	US-09-245-487B-25	Sequence 25, Appl	C 318	16.4	1.0	31	10	US-09-801-274-130A-16	Sequence 16, Appl
C 246	16.8	1.1	40	9	US-09-747-419-26	Sequence 26, Appl	C 319	16.4	1.0	32	10	US-10-012-896-488	Sequence 11, Appl
C 247	16.8	1.1	40	9	US-09-943-722-126	Sequence 126, App	C 320	16.4	1.0	33	9	US-09-895-793-488	Sequence 488, App
C 248	16.8	1.1	41	9	US-09-966-277-19	Sequence 19, Appl	C 321	16.4	1.0	33	9	US-09-882-827-488	Sequence 488, App
C 249	16.8	1.1	41	9	US-09-966-277-20	Sequence 20, Appl	C 322	16.4	1.0	33	9	US-09-971-798-15	Sequence 488, App
C 250	16.8	1.1	41	9	US-09-966-930-19	Sequence 19, Appl	C 323	16.4	1.0	33	9	US-09-988-115A-68	Sequence 15, Appl
C 251	16.8	1.1	41	9	US-09-966-930-20	Sequence 20, Appl	C 324	16.4	1.0	33	10	US-09-759-143-488	Sequence 488, App
C 252	16.8	1.1	41	9	US-09-966-930-20	Sequence 20, Appl	C 325	16.4	1.0	33	10	US-09-780-669-488	Sequence 488, App
C 253	16.8	1.1	43	9	US-09-978-295A-450	Sequence 450, App	C 326	16.4	1.0	33	10	US-09-822-827-488	Sequence 488, App
C 254	16.8	1.1	43	9	US-09-916-510A-12	Sequence 12, Appl	C 327	16.4	1.0	33	10	US-09-971-798-15	Sequence 488, App
C 255	16.8	1.1	43	9	US-09-978-697-450	Sequence 450, App	C 328	16.4	1.0	33	10	US-09-971-798-15	Sequence 488, App
C 256	16.8	1.1	43	9	US-09-978-192A-450	Sequence 450, App	C 329	16.4	1.0	36	9	US-09-733-042-24	Sequence 24, Appl
C 257	16.8	1.1	43	9	US-09-999-832A-450	Sequence 450, App	C 330	16.4	1.0	36	10	US-09-504-231A-1701	Sequence 1701, Ap
C 258	16.8	1.1	43	9	US-09-999-832A-450	Sequence 450, App	C 331	16.4	1.0	36	10	US-09-504-231A-2479	Sequence 2479, Ap
C 259	16.8	1.1	43	9	US-09-978-189-450	Sequence 450, App	C 332	16.4	1.0	36	10	US-09-274-553D-1701	Sequence 1701, Ap
C 260	16.8	1.1	45	9	US-09-978-608A-450	Sequence 450, App	C 333	16.4	1.0	36	10	US-09-274-553D-2479	Sequence 2479, Ap
C 261	16.8	1.1	48	9	US-09-864-785-3343	Sequence 56, Appl	C 334	16.4	1.0	39	9	US-09-925-664-62	Sequence 62, Appl
C 262	16.8	1.1	48	10	US-09-880-732-55	Sequence 343, Ap	C 335	16.4	1.0	40	9	US-09-874-547-28	Sequence 28, Appl
C 263	16.8	1.1	49	10	US-09-179-536B-119	Sequence 119, Appl	C 336	16.4	1.0	40	9	US-10-125-635A-371	Sequence 371, App
C 264	16.8	1.1	50	9	US-10-012-896-969	Sequence 969, App	C 337	16.4	1.0	40	10	US-09-814-292-16	Sequence 16, Appl
C 265	16.8	1.1	50	9	US-09-895-814-969	Sequence 969, App	C 338	16.4	1.0	42	9	US-10-097-597-11	Sequence 11, Appl
C 266	16.8	1.1	50	9	US-09-765-555-29	Sequence 29, Appl	C 339	16.4	1.0	42	9	US-10-097-580-11	Sequence 11, Appl
C 267	16.8	1.1	50	10	US-09-990-080-17	Sequence 17, Appl	C 340	16.4	1.0	42	9	US-10-045-631A-23	Sequence 23, Appl
C 268	16.6	1.1	25	10	US-09-866-108-3140	Sequence 3140, Ap	C 341	16.4	1.0	42	9	US-09-445-022A-11	Sequence 11, Appl
C 269	16.6	1.1	25	10	US-09-866-108-3141	Sequence 3141, Ap	C 342	16.4	1.0	45	9	US-09-957-641-10	Sequence 10, Appl
C 270	16.6	1.1	25	10	US-09-866-108-3142	Sequence 3142, Ap	C 343	16.4	1.0	45	9	US-09-957-641-18	Sequence 18, Appl
C 271	16.6	1.1	31	10	US-09-911-935A-8	Sequence 8, Appl	C 344	16.4	1.0	45	9	US-10-097-597-11	Sequence 11, Appl
C 272	16.6	1.1	32	10	US-09-896-650A-18	Sequence 18, Appl	C 345	16.4	1.0	45	9	US-10-097-597-11	Sequence 11, Appl
C 273	16.6	1.1	33	9	US-09-756-854-13	Sequence 13, Appl	C 346	16.4	1.0	45	10	US-09-893-615-68	Sequence 68, Appl
C 274	16.6	1.1	33	10	US-10-041-574-13	Sequence 13, Appl	C 347	16.4	1.0	45	10	US-09-893-615-68	Sequence 68, Appl
C 275	16.6	1.1	33	10	US-09-757-824-1	Sequence 1, Appli	C 348	16.4	1.0	47	9	US-09-876-082-54	Sequence 54, Appl
C 276	16.6	1.1	34	9	US-10-158-895-46	Sequence 46, Appl	C 349	16.4	1.0	47	9	US-09-875-082-54	Sequence 54, Appl
C 277	16.6	1.1	36	9	US-10-057-558-35	Sequence 35, Appl	C 350	16.4	1.0	48	9	US-09-991-209-8	Sequence 29, Appl
C 278	16.6	1.1	36	9	US-10-072-438-14	Sequence 14, Appl	C 351	16.4	1.0	48	9	US-10-090-215-3	Sequence 3, Appli
C 279	16.6	1.1	36	9	US-10-072-438-28	Sequence 28, Appl	C 352	16.4	1.0	49	10	US-09-785-632A-9	Sequence 9, Appli
C 280	16.6	1.1	36	9	US-10-137-765-18	Sequence 18, Appl	C 353	16.4	1.0	50	10	US-09-874-547-11	Sequence 11, Appl
C 281	16.6	1.1	36	9	US-10-146-337-18	Sequence 18, Appl	C 354	16.2	1.0	21	9	US-09-828-034-10	Sequence 10, Appl
C 282	16.6	1.1	37	10	US-09-736-969A-68	Sequence 68, Appl	C 355	16.2	1.0	22	9	US-09-837-621-32	Sequence 32, Appl
C 283	16.6	1.1	38	9	US-09-864-785-917	Sequence 917, App	C 356	16.2	1.0	22	9	US-09-837-621-35	Sequence 35, Appl
C 284	16.6	1.1	38	9	US-09-864-785-917	Sequence 917, App	C 357	16.2	1.0	22	9	US-09-788-038-29	Sequence 29, Appl
C 285	16.6	1.1	39	9	US-10-046-922-74	Sequence 74, App	C 358	16.2	1.0	22	10	US-09-788-038-29	Sequence 29, Appl
C 286	16.6	1.1	39	9	US-09-777-597A-12	Sequence 12, Appl	C 359	16.2	1.0	24	9	US-09-837-621-29	Sequence 29, Appl
C 287	16.6	1.1	42	9	US-10-188-947-7	Sequence 7, Appli	C 360	16.2	1.0	24	9	US-09-837-621-29	Sequence 29, Appl
C 288	16.6	1.1	42	9	US-10-083-590-2	Sequence 2, Appli	C 361	16.2	1.0	24	9	US-09-837-621-30	Sequence 30, Appl
C 289	16.6	1.1	42	10	US-09-790-417-235	Sequence 235, App	C 362	16.2	1.0	24	10	US-09-788-038-29	Sequence 29, Appl
C 290	16.6	1.1	43	9	US-10-085-853-28	Sequence 28, Appl	C 363	16.2	1.0	24	10	US-09-788-038-29	Sequence 29, Appl
C 291	16.6	1.1	45	9	US-09-735-056-22	Sequence 22, Appl	C 364	16.2	1.0	24	10	US-09-788-038-29	Sequence 29, Appl
C 292	16.6	1.1	46	10	US-09-795-006A-29	Sequence 29, Appl	C 365	16.2	1.0	25	10	US-09-866-108-3143	Sequence 3143, Ap
C 293	16.6	1.1	46	10	US-09-995-847-22	Sequence 22, Appl	C 366	16.2	1.0	25	10	US-09-866-108-3144	Sequence 3144, Ap
C 294	16.6	1.1	48	10	US-09-939-483-24	Sequence 24, Appl	C 367	16.2	1.0	27	10	US-09-965-553-39	Sequence 39, Appl
C 295	16.6	1.1	48	10	US-09-939-483-24	Sequence 24, Appl	C 368	16.2	1.0	27	10	US-09-899-917-7	Sequence 7, Appli
C 296	16.6	1.1	49	10	US-09-973-322-20	Sequence 20, Appl	C 369	16.2	1.0	29	10	US-09-899-917-10	Sequence 10, Appl
C 297	16.6	1.1	50	9	US-09-990-046-6	Sequence 6, Appli	C 370	16.2	1.0	30	9	US-09-955-052-5	Sequence 5, Appli
C 298	16.6	1.1	50	9	US-09-990-046-6	Sequence 6, Appli	C 371	16.2	1.0	30	9	US-09-955-052-7	Sequence 7, Appli
C 299	16.6	1.1	50	9	US-09-990-425A-32	Sequence 32, Appl	C 372	16.2	1.0	30	10	US-09-897-042-10	Sequence 10, Appl
C 300	16.6	1.1	50	9	US-10-125-751-18	Sequence 18, Appl	C 373	16.2	1.0	31	9	US-09-961-077-414	Sequence 414, App
C 301	16.6	1.1	50	9	US-09-912-552-18	Sequence 18, Appl	C 374	16.2	1.0	31	9	US-09-912-263-39	Sequence 39, Appl
C 302	16.6	1.1	50	9	US-10-011-931-12	Sequence 12, Appl	C 375	16.2	1.0	31	9	US-09-912-263-39	Sequence 39, Appl
C 303	16.6	1.1	50	9	US-10-036-949-40	Sequence 40, Appl	C 376	16.2	1.0	31	9	US-09-912-263-39	Sequence 39, Appl
C 304	16.6	1.1	50	9	US-10-079-185-32	Sequence 32, Appl	C 377	16.2	1.0	31	9	US-09-912-263-39	Sequence 39, Appl
C 305	16.6	1.1	50	10	US-09-912-436-15	Sequence 15, Appl	C 378	16.2	1.0	31	10	US-09-801-274-181	Sequence 181, App
C 306	16.6	1.1	50	10	US-09-918-029-18	Sequence 18, Appl	C 379	16.2	1.0	31	10	US-09-801-274-337	Sequence 337, App
C 307	16.6	1.1	50	12	US-10-038-271-18	Sequence 44, Appl	C 380	16.2	1.0	31	10	US-09-801-274-1345	Sequence 1345, Ap
C 308	16.4	1.0	18	10	US-09-797-862-23	Sequence 23, Appl	C 381	16.2	1.0	31	10	US-09-801-274-1423	Sequence 1423, Ap
C 309	16.4	1.0	21	10	US-09-798-058-13	Sequence 13, Appl	C 382	16.2	1.0	31	10	US-09-801-274-1504	Sequence 1504, Ap
C 310	16.4	1.0	27	10	US-09-725-363A-6	Sequence 6, Appli	C 383	16.2	1.0	31	10	US-09-801-274-1601	Sequence 1601, Ap
C 311	16.4	1.0	28	10	US-09-867-475-4	Sequence 4, Appli	C 384	16.2	1.0	32	9	US-09-847-101B-41	Sequence 41, Appl

385	16.2	1.0	34	10	US-09-790-417-234	Sequence 234, App	458	16	1.0	31	10	US-09-801-274-989	Sequence 989, App
386	16.2	1.0	35	9	US-09-850-514-48	Sequence 48, Appl	459	16	1.0	32	10	US-09-923-246-62	Sequence 62, Appl
387	16.2	1.0	36	9	US-09-991-209-62	Sequence 62, Appl	460	16	1.0	33	9	US-09-416-579A-4	Sequence 4, Appl1
388	16.2	1.0	37	10	US-09-504-231A-3220	Sequence 3220, Ap	461	16	1.0	33	10	US-09-966-781A-21	Sequence 21, Appl
389	16.2	1.0	37	10	US-09-760-574-13	Sequence 13, Appl	462	16	1.0	33	10	US-09-922-378-13	Sequence 13, Appl
390	16.2	1.0	38	9	US-09-864-785-780	Sequence 780, App	463	16	1.0	35	9	US-09-376-940-21	Sequence 21, Appl
391	16.2	1.0	38	9	US-10-201-510-6	Sequence 6, Appl1	464	16	1.0	37	10	US-09-938-433-3	Sequence 3, Appl1
392	16.2	1.0	38	9	US-09-941-492-30	Sequence 30, Appl	465	16	1.0	37	10	US-09-788-209A-3	Sequence 3, Appl1
393	16.2	1.0	38	10	US-09-874-547-62	Sequence 62, Appl	466	16	1.0	38	9	US-09-864-785-821	Sequence 821, App
394	16.2	1.0	38	10	US-09-874-547-76	Sequence 76, Appl	467	16	1.0	38	9	US-09-864-785-874	Sequence 874, App
395	16.2	1.0	38	10	US-09-756-095-30	Sequence 30, Appl	468	16	1.0	38	9	US-09-864-785-1097	Sequence 1097, Ap
396	16.2	1.0	39	9	US-09-925-664-4	Sequence 4, Appl1	469	16	1.0	38	9	US-09-864-785-1212	Sequence 1212, Ap
397	16.2	1.0	39	9	US-09-925-664-5	Sequence 5, Appl1	470	16	1.0	39	9	US-09-966-140-22	Sequence 22, Appl
398	16.2	1.0	41	9	US-09-998-425-52	Sequence 52, Appl	471	16	1.0	39	9	US-09-925-664-60	Sequence 60, Appl
399	16.2	1.0	41	9	US-09-997-977-52	Sequence 52, Appl	472	16	1.0	39	10	US-09-784-990-23	Sequence 23, Appl
400	16.2	1.0	42	9	US-09-862-993-2	Sequence 2, Appl1	473	16	1.0	39	10	US-09-469-522-15	Sequence 15, Appl
401	16.2	1.0	42	9	US-10-038-723-78	Sequence 74, Appl	474	16	1.0	40	10	US-09-245-802-11	Sequence 11, Appl
402	16.2	1.0	42	10	US-09-727-311-44	Sequence 48, Appl	475	16	1.0	41	9	US-09-185-904A-17	Sequence 17, Appl
403	16.2	1.0	42	10	US-09-790-417-233	Sequence 233, App	476	16	1.0	41	10	US-09-811-094-17	Sequence 17, Appl
404	16.2	1.0	42	10	US-09-843-856-7	Sequence 7, Appl1	477	16	1.0	41	10	US-09-810-644-17	Sequence 17, Appl
405	16.2	1.0	42	10	US-09-765-111A-9	Sequence 9, Appl1	478	16	1.0	42	10	US-09-900-379-38	Sequence 38, Appl
406	16.2	1.0	43	9	US-09-905-291A-173	Sequence 173, App	479	16	1.0	42	10	US-09-848-164-38	Sequence 38, Appl
407	16.2	1.0	43	9	US-09-902-853-173	Sequence 173, App	480	16	1.0	42	10	US-09-878-752-4	Sequence 4, Appl1
408	16.2	1.0	43	9	US-09-907-824-173	Sequence 173, App	481	16	1.0	42	10	US-09-780-929-99	Sequence 99, Appl
409	16.2	1.0	43	9	US-09-907-841-173	Sequence 173, App	482	16	1.0	42	10	US-09-907-824-37	Sequence 37, Appl
410	16.2	1.0	43	9	US-09-904-011-173	Sequence 173, App	483	16	1.0	43	9	US-09-907-841-37	Sequence 37, Appl
411	16.2	1.0	43	9	US-09-906-742-173	Sequence 173, App	484	16	1.0	43	9	US-09-907-841-37	Sequence 37, Appl
412	16.2	1.0	43	9	US-09-906-838-173	Sequence 173, App	485	16	1.0	43	10	US-09-766-898-12	Sequence 12, Appl
413	16.2	1.0	43	9	US-09-907-613-173	Sequence 173, App	486	16	1.0	43	10	US-09-766-916-12	Sequence 12, Appl
414	16.2	1.0	43	9	US-09-907-942-173	Sequence 173, App	487	16	1.0	44	9	US-09-252-150-48	Sequence 48, Appl
415	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	488	16	1.0	44	9	US-09-996-634-159	Sequence 159, App
416	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	489	16	1.0	45	9	US-09-905-291A-37	Sequence 37, Appl
417	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	490	16	1.0	45	9	US-09-905-291A-37	Sequence 37, Appl
418	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	491	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
419	16.2	1.0	43	9	US-09-904-859-173	Sequence 173, App	492	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
420	16.2	1.0	43	9	US-09-906-646-173	Sequence 173, App	493	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
421	16.2	1.0	43	9	US-09-906-646-173	Sequence 173, App	494	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
422	16.2	1.0	43	9	US-09-906-646-173	Sequence 173, App	495	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
423	16.2	1.0	43	9	US-09-906-646-173	Sequence 173, App	496	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
424	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	497	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
425	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	498	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
426	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	499	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
427	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	500	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
428	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	501	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
429	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	502	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
430	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	503	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
431	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	504	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
432	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	505	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
433	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	506	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
434	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	507	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
435	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	508	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
436	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	509	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
437	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	510	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
438	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	511	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
439	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	512	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
440	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	513	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
441	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	514	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
442	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	515	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
443	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	516	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
444	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	517	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
445	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	518	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
446	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	519	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
447	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	520	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
448	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	521	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
449	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	522	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
450	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	523	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
451	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	524	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
452	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	525	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
453	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	526	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
454	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	527	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
455	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	528	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
456	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	529	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl
457	16.2	1.0	43	10	US-09-903-749A-173	Sequence 173, App	530	16	1.0	45	9	US-09-907-824-37	Sequence 37, Appl

C 531	15.8	1.0	25	10	US-09-866-108-10883	Sequence 10883, A	604	15.8	1.0	45	9	US-09-904-011-94	Sequence 94, Appl
C 532	15.8	1.0	25	10	US-09-866-108-10884	Sequence 10884, A	605	15.8	1.0	45	9	US-09-906-742-94	Sequence 94, Appl
C 533	15.8	1.0	25	10	US-09-866-108-10885	Sequence 10885, A	606	15.8	1.0	45	9	US-10-211-069-33	Sequence 33, Appl
C 534	15.8	1.0	25	10	US-09-866-108-10886	Sequence 10886, A	607	15.8	1.0	45	9	US-09-906-838-94	Sequence 94, Appl
C 535	15.8	1.0	25	10	US-09-866-108-10887	Sequence 10887, A	608	15.8	1.0	45	9	US-09-907-613-94	Sequence 94, Appl
C 536	15.8	1.0	25	10	US-09-866-108-10888	Sequence 10888, A	609	15.8	1.0	45	9	US-09-907-942-94	Sequence 94, Appl
C 537	15.8	1.0	25	10	US-09-866-108-10889	Sequence 10889, A	610	15.8	1.0	45	9	US-09-904-859-94	Sequence 94, Appl
C 538	15.8	1.0	27	9	US-10-041-090-2	Sequence 2, Appl	611	15.8	1.0	45	9	US-09-904-859-94	Sequence 94, Appl
C 539	15.8	1.0	27	9	US-09-877-705A-61	Sequence 61, Appl	612	15.8	1.0	45	9	US-09-904-859-94	Sequence 94, Appl
C 540	15.8	1.0	27	9	US-09-877-705A-62	Sequence 62, Appl	613	15.8	1.0	45	9	US-09-904-859-94	Sequence 94, Appl
C 541	15.8	1.0	27	9	US-09-877-738A-61	Sequence 61, Appl	614	15.8	1.0	45	9	US-09-904-859-94	Sequence 94, Appl
C 542	15.8	1.0	27	9	US-09-877-738A-62	Sequence 62, Appl	615	15.8	1.0	45	9	US-09-906-742-94	Sequence 94, Appl
C 543	15.8	1.0	27	10	US-09-735-363A-3	Sequence 3, Appl	616	15.8	1.0	45	9	US-09-906-742-94	Sequence 94, Appl
C 544	15.8	1.0	27	10	US-09-735-363A-61	Sequence 68, Appl	617	15.8	1.0	45	9	US-09-902-903-94	Sequence 94, Appl
C 545	15.8	1.0	27	10	US-09-894-633A-41	Sequence 41, Appl	618	15.8	1.0	45	9	US-09-903-786-94	Sequence 94, Appl
C 546	15.8	1.0	27	12	US-10-017-828-14	Sequence 14, Appl	619	15.8	1.0	45	10	US-09-742-693-2	Sequence 94, Appl
C 547	15.8	1.0	28	9	US-09-944-413-9	Sequence 9, Appl	620	15.8	1.0	45	10	US-09-909-320-94	Sequence 2, Appl
C 548	15.8	1.0	28	9	US-09-944-403-9	Sequence 9, Appl	621	15.8	1.0	45	10	US-09-772-719-17	Sequence 94, Appl
C 549	15.8	1.0	28	9	US-09-944-403-9	Sequence 9, Appl	622	15.8	1.0	45	10	US-09-772-719-17	Sequence 94, Appl
C 550	15.8	1.0	28	9	US-09-944-896-9	Sequence 9, Appl	623	15.8	1.0	45	10	US-09-896-650A-1	Sequence 1, Appl
C 551	15.8	1.0	28	9	US-09-944-944-9	Sequence 9, Appl	624	15.8	1.0	45	10	US-09-909-088B-94	Sequence 94, Appl
C 552	15.8	1.0	28	9	US-09-944-907-9	Sequence 9, Appl	625	15.8	1.0	46	10	US-09-900-379-64	Sequence 64, Appl
C 553	15.8	1.0	28	10	US-09-866-028-9	Sequence 9, Appl	626	15.8	1.0	46	10	US-09-216-393-362	Sequence 362, Appl
C 554	15.8	1.0	28	10	US-09-944-449-9	Sequence 9, Appl	627	15.8	1.0	46	10	US-09-766-898-14	Sequence 14, Appl
C 555	15.8	1.0	28	10	US-09-944-457-9	Sequence 9, Appl	628	15.8	1.0	46	10	US-09-766-898-15	Sequence 25, Appl
C 556	15.8	1.0	28	10	US-09-945-587-9	Sequence 9, Appl	629	15.8	1.0	46	10	US-09-766-916-14	Sequence 14, Appl
C 557	15.8	1.0	28	10	US-09-945-015-9	Sequence 9, Appl	630	15.8	1.0	46	10	US-09-766-916-25	Sequence 25, Appl
C 558	15.8	1.0	28	10	US-09-944-396-9	Sequence 9, Appl	631	15.8	1.0	46	10	US-09-848-164-64	Sequence 64, Appl
C 559	15.8	1.0	28	10	US-09-944-097-9	Sequence 9, Appl	632	15.8	1.0	47	10	US-09-884-472-5	Sequence 5, Appl
C 560	15.8	1.0	28	10	US-09-944-432-9	Sequence 9, Appl	633	15.8	1.0	47	10	US-09-785-632A-13	Sequence 13, Appl
C 561	15.8	1.0	28	10	US-09-943-762-9	Sequence 9, Appl	634	15.8	1.0	49	9	US-09-880-732-56	Sequence 56, Appl
C 562	15.8	1.0	28	10	US-09-944-654-9	Sequence 9, Appl	635	15.8	1.0	50	9	US-10-106-092-7	Sequence 7, Appl
C 563	15.8	1.0	28	10	US-09-943-851A-9	Sequence 9, Appl	636	15.8	1.0	50	9	US-10-103-002-12	Sequence 12, Appl
C 564	15.8	1.0	30	9	US-09-953-052-11	Sequence 11, Appl	637	15.8	1.0	50	9	US-10-103-002-13	Sequence 13, Appl
C 565	15.8	1.0	30	9	US-09-953-052-16	Sequence 16, Appl	638	15.8	1.0	50	9	US-09-943-722-20	Sequence 20, Appl
C 566	15.8	1.0	30	10	US-10-010-920-40	Sequence 40, Appl	639	15.8	1.0	50	10	US-09-227-913-1	Sequence 1, Appl
C 567	15.8	1.0	30	10	US-09-222-973-18	Sequence 18, Appl	640	15.8	1.0	50	10	US-09-227-913-3	Sequence 3, Appl
C 568	15.8	1.0	30	10	US-09-965-099-27	Sequence 27, Appl	641	15.6	1.0	25	9	US-09-872-462-440	Sequence 29, Appl
C 569	15.8	1.0	30	12	US-10-051-852-27	Sequence 27, Appl	642	15.6	1.0	25	9	US-09-872-462-441	Sequence 440, Appl
C 570	15.8	1.0	31	10	US-09-778-900A-12	Sequence 12, Appl	643	15.6	1.0	25	10	US-09-872-462-441	Sequence 441, Appl
C 571	15.8	1.0	31	10	US-09-801-274-40	Sequence 40, Appl	644	15.6	1.0	25	10	US-09-866-108-3139	Sequence 3139, Appl
C 572	15.8	1.0	31	10	US-09-801-274-40	Sequence 1288, Ap	645	15.6	1.0	25	10	US-09-866-108-4467	Sequence 4467, Appl
C 573	15.8	1.0	32	8	US-08-462-159B-3	Sequence 3, Appl	646	15.6	1.0	25	10	US-09-866-108-4468	Sequence 4468, Appl
C 574	15.8	1.0	33	9	US-09-932-367A-55	Sequence 55, Appl	647	15.6	1.0	26	10	US-09-901-042-3	Sequence 3, Appl
C 575	15.8	1.0	33	9	US-09-932-367A-62	Sequence 62, Appl	648	15.6	1.0	26	10	US-09-932-367A-62	Sequence 26, Appl
C 576	15.8	1.0	34	9	US-10-124-880-58	Sequence 58, Appl	649	15.6	1.0	26	10	US-09-932-367A-62	Sequence 26, Appl
C 577	15.8	1.0	34	10	US-09-790-417-232	Sequence 232, Appl	650	15.6	1.0	27	7	US-09-815-171A-31	Sequence 31, Appl
C 578	15.8	1.0	36	9	US-10-097-556-2	Sequence 2, Appl	651	15.6	1.0	27	10	US-09-815-171A-31	Sequence 31, Appl
C 579	15.8	1.0	36	9	US-09-907-111-219	Sequence 219, Appl	652	15.6	1.0	27	10	US-09-815-171A-31	Sequence 31, Appl
C 580	15.8	1.0	36	9	US-10-056-414-402	Sequence 402, Appl	653	15.6	1.0	29	9	US-09-815-171A-31	Sequence 31, Appl
C 581	15.8	1.0	37	9	US-10-192-085-9	Sequence 9, Appl	654	15.6	1.0	29	9	US-09-815-171A-31	Sequence 31, Appl
C 582	15.8	1.0	37	10	US-09-847-185-49	Sequence 49, Appl	655	15.6	1.0	30	9	US-09-815-171A-31	Sequence 31, Appl
C 583	15.8	1.0	38	9	US-09-864-785-1108	Sequence 1108, Ap	656	15.6	1.0	30	9	US-09-815-171A-31	Sequence 31, Appl
C 584	15.8	1.0	38	9	US-09-864-785-1108	Sequence 1398, Ap	657	15.6	1.0	30	10	US-09-815-171A-31	Sequence 31, Appl
C 585	15.8	1.0	38	10	US-09-864-785-1108	Sequence 1398, Ap	658	15.6	1.0	31	9	US-09-815-171A-31	Sequence 31, Appl
C 586	15.8	1.0	39	9	US-09-738-968-31	Sequence 31, Appl	659	15.6	1.0	31	9	US-09-815-171A-31	Sequence 31, Appl
C 587	15.8	1.0	39	9	US-09-211-424-27	Sequence 27, Appl	660	15.6	1.0	31	9	US-09-815-171A-31	Sequence 31, Appl
C 588	15.8	1.0	39	10	US-09-818-31	Sequence 31, Appl	661	15.6	1.0	31	9	US-09-815-171A-31	Sequence 31, Appl
C 589	15.8	1.0	39	10	US-09-263-959-225	Sequence 225, Appl	662	15.6	1.0	31	9	US-09-815-171A-31	Sequence 31, Appl
C 590	15.8	1.0	40	9	US-10-139-262-32	Sequence 32, Appl	663	15.6	1.0	31	9	US-09-815-171A-31	Sequence 31, Appl
C 591	15.8	1.0	40	9	US-10-101-392-16	Sequence 16, Appl	664	15.6	1.0	31	10	US-09-912-263-3	Sequence 3, Appl
C 592	15.8	1.0	41	9	US-10-101-392-18	Sequence 18, Appl	665	15.6	1.0	31	10	US-09-912-263-3	Sequence 3, Appl
C 593	15.8	1.0	41	9	US-10-119-466-10	Sequence 10, Appl	666	15.6	1.0	31	10	US-09-912-263-3	Sequence 3, Appl
C 594	15.8	1.0	41	9	US-09-185-904A-27	Sequence 27, Appl	667	15.6	1.0	31	10	US-09-912-263-3	Sequence 3, Appl
C 595	15.8	1.0	41	9	US-09-988-462-87	Sequence 87, Appl	668	15.6	1.0	31	10	US-09-912-263-3	Sequence 3, Appl
C 596	15.8	1.0	41	10	US-09-811-094-27	Sequence 27, Appl	669	15.6	1.0	31	10	US-09-912-263-3	Sequence 3, Appl
C 597	15.8	1.0	44	9	US-09-810-644-27	Sequence 27, Appl	670	15.6	1.0	33	9	US-09-912-263-3	Sequence 3, Appl
C 598	15.8	1.0	44	9	US-09-950-335A-15	Sequence 15, Appl	671	15.6	1.0	33	10	US-09-912-263-3	Sequence 3, Appl
C 599	15.8	1.0	45	9	US-09-905-291A-94	Sequence 94, Appl	672	15.6	1.0	33	10	US-09-912-263-3	Sequence 3, Appl
C 600	15.8	1.0	45	9	US-09-925-664-73	Sequence 73, Appl	673	15.6	1.0	34	9	US-09-912-263-3	Sequence 3, Appl
C 601	15.8	1.0	45	9	US-09-925-822-15	Sequence 15, Appl	674	15.6	1.0	34	9	US-09-912-263-3	Sequence 3, Appl
C 602	15.8	1.0	45	9	US-09-902-853-94	Sequence 94, Appl	675	15.6	1.0	34	9	US-09-912-263-3	Sequence 3, Appl
C 603	15.8	1.0	45	9	US-09-907-824-94	Sequence 94, Appl	676	15.6	1.0	34	9	US-09-912-263-3	Sequence 3, Appl

C 677	15.6	1.0	34	10	US-09-759-143-901	Sequence 901, App	C 750	15.6	1.0	45	9	US-10-125-751-22	Sequence 22, Appl
C 678	15.6	1.0	34	10	US-09-780-669-901	Sequence 901, App	C 751	15.6	1.0	45	9	US-10-036-949-47	Sequence 47, Appl
C 679	15.6	1.0	34	10	US-09-822-827-901	Sequence 901, App	C 752	15.6	1.0	45	10	US-09-179-536B-253	Sequence 253, App
C 680	15.6	1.0	35	10	US-09-861-257-100	Sequence 100, App	C 753	15.6	1.0	45	10	US-09-808-027-10	Sequence 10, Appl
C 681	15.6	1.0	35	10	US-09-735-705-384	Sequence 384, App	C 754	15.6	1.0	45	10	US-09-740-668A-72	Sequence 72, Appl
C 682	15.6	1.0	35	10	US-09-850-716A-384	Sequence 384, App	C 755	15.6	1.0	45	10	US-09-893-615-69	Sequence 69, Appl
C 683	15.6	1.0	35	10	US-09-897-778-384	Sequence 384, App	C 756	15.6	1.0	45	10	US-09-918-029-22	Sequence 22, Appl
C 684	15.6	1.0	36	9	US-09-991-209-62	Sequence 62, App	C 757	15.6	1.0	45	10	US-09-900-062-47	Sequence 47, Appl
C 685	15.6	1.0	36	9	US-09-873-676-68	Sequence 68, App	C 758	15.6	1.0	45	10	US-09-795-006A-18	Sequence 18, Appl
C 686	15.6	1.0	36	10	US-09-974-248-5	Sequence 5, Appl	C 759	15.6	1.0	45	10	US-09-795-006A-18	Sequence 38, Appl
C 687	15.6	1.0	37	10	US-09-250-611-105	Sequence 105, App	C 760	15.6	1.0	45	12	US-10-038-221-22	Sequence 22, Appl
C 688	15.6	1.0	38	9	US-10-028-410-4	Sequence 4, Appl	C 761	15.6	1.0	46	9	US-09-978-295A-621	Sequence 621, App
C 689	15.6	1.0	38	9	US-10-125-635A-370	Sequence 370, App	C 762	15.6	1.0	46	9	US-09-978-697-621	Sequence 621, App
C 690	15.6	1.0	38	10	US-09-874-547-69	Sequence 69, App	C 763	15.6	1.0	46	9	US-09-978-192A-621	Sequence 621, App
C 691	15.6	1.0	38	10	US-09-876-527-18	Sequence 18, App	C 764	15.6	1.0	46	9	US-09-999-832A-621	Sequence 621, App
C 692	15.6	1.0	38	10	US-09-758-386-4	Sequence 4, Appl	C 765	15.6	1.0	46	9	US-09-900-379-67	Sequence 67, Appl
C 693	15.6	1.0	39	10	US-09-784-990-25	Sequence 25, App	C 766	15.6	1.0	46	9	US-09-900-379-68	Sequence 68, Appl
C 694	15.6	1.0	39	10	US-09-179-536B-247	Sequence 247, App	C 767	15.6	1.0	46	9	US-09-978-189-621	Sequence 621, App
C 695	15.6	1.0	39	10	US-09-854-799-6	Sequence 6, App	C 768	15.6	1.0	46	9	US-09-991-062-14	Sequence 14, App
C 696	15.6	1.0	39	10	US-09-469-522-14	Sequence 14, App	C 769	15.6	1.0	46	10	US-09-848-164-67	Sequence 67, Appl
C 697	15.6	1.0	39	10	US-10-158-711-1	Sequence 1, Appl	C 770	15.6	1.0	46	10	US-09-848-164-68	Sequence 68, Appl
C 698	15.6	1.0	40	9	US-10-158-711-1	Sequence 1, Appl	C 771	15.6	1.0	46	10	US-09-179-536B-254	Sequence 254, App
C 699	15.6	1.0	40	9	US-09-179-536B-248	Sequence 248, App	C 772	15.6	1.0	46	10	US-09-978-295A-378	Sequence 378, App
C 700	15.6	1.0	40	10	US-09-931-184-6	Sequence 6, Appl	C 773	15.6	1.0	47	9	US-09-853-526-248	Sequence 248, App
C 701	15.6	1.0	40	10	US-09-338-351-29	Sequence 29, App	C 774	15.6	1.0	47	9	US-09-978-697-378	Sequence 378, App
C 702	15.6	1.0	41	10	US-09-238-351-40	Sequence 40, App	C 775	15.6	1.0	47	9	US-09-978-192A-378	Sequence 378, App
C 703	15.6	1.0	41	10	US-09-179-536B-249	Sequence 249, App	C 776	15.6	1.0	47	9	US-09-999-832A-378	Sequence 378, App
C 704	15.6	1.0	41	10	US-09-858-994-12	Sequence 12, App	C 777	15.6	1.0	47	9	US-09-978-189-378	Sequence 378, App
C 705	15.6	1.0	41	10	US-09-185-904A-29	Sequence 29, App	C 778	15.6	1.0	47	9	US-09-735-056-24	Sequence 24, App
C 706	15.6	1.0	42	9	US-09-887-784-11	Sequence 11, App	C 779	15.6	1.0	47	9	US-09-978-608A-378	Sequence 378, App
C 707	15.6	1.0	42	9	US-09-887-784-12	Sequence 12, App	C 780	15.6	1.0	47	10	US-09-179-536B-255	Sequence 255, App
C 708	15.6	1.0	42	10	US-09-811-094-35	Sequence 35, App	C 781	15.6	1.0	47	10	US-09-785-632A-12	Sequence 12, App
C 709	15.6	1.0	42	10	US-09-811-094-35	Sequence 35, App	C 782	15.6	1.0	47	10	US-09-785-632A-12	Sequence 12, App
C 710	15.6	1.0	42	10	US-09-810-644-29	Sequence 29, App	C 783	15.6	1.0	47	10	US-09-901-484A-248	Sequence 248, App
C 711	15.6	1.0	42	10	US-09-810-644-35	Sequence 35, App	C 784	15.6	1.0	47	10	US-09-901-484A-248	Sequence 248, App
C 712	15.6	1.0	42	10	US-09-179-536B-250	Sequence 250, App	C 785	15.6	1.0	48	9	US-10-054-444-6	Sequence 6, Appl
C 713	15.6	1.0	42	10	US-09-792-630-48	Sequence 48, App	C 786	15.6	1.0	48	9	US-09-864-785-320A	Sequence 302A, App
C 714	15.6	1.0	43	9	US-09-944-160-17	Sequence 17, App	C 787	15.6	1.0	48	9	US-09-864-785-322A	Sequence 322A, App
C 715	15.6	1.0	43	9	US-10-080-376-48	Sequence 48, App	C 788	15.6	1.0	48	10	US-09-179-536B-256	Sequence 256, App
C 716	15.6	1.0	43	9	US-10-033-297-97	Sequence 97, App	C 789	15.6	1.0	48	10	US-09-880-732-55	Sequence 55, App
C 717	15.6	1.0	43	9	US-09-991-209-80	Sequence 80, App	C 790	15.6	1.0	49	9	US-09-938-901-13	Sequence 13, App
C 718	15.6	1.0	43	9	US-09-953-351-48	Sequence 48, App	C 791	15.6	1.0	49	10	US-09-179-536B-257	Sequence 257, App
C 719	15.6	1.0	43	9	US-09-940-244-97	Sequence 97, App	C 792	15.6	1.0	50	9	US-10-125-751-17	Sequence 17, App
C 720	15.6	1.0	43	10	US-09-179-536B-251	Sequence 251, App	C 793	15.6	1.0	50	9	US-09-912-552-17	Sequence 17, App
C 721	15.6	1.0	43	10	US-09-027-287-40	Sequence 40, App	C 794	15.6	1.0	50	9	US-10-036-949-39	Sequence 39, App
C 722	15.6	1.0	43	10	US-09-252-656B-40	Sequence 40, App	C 795	15.6	1.0	50	9	US-10-066-500-20	Sequence 20, App
C 723	15.6	1.0	43	10	US-09-905-291A-21	Sequence 21, App	C 796	15.6	1.0	50	9	US-10-066-500-20	Sequence 20, App
C 724	15.6	1.0	44	9	US-09-908-133B-9	Sequence 9, Appl	C 797	15.6	1.0	50	9	US-10-066-500-20	Sequence 20, App
C 725	15.6	1.0	44	9	US-09-902-853-21	Sequence 21, App	C 798	15.6	1.0	50	9	US-10-066-500-20	Sequence 20, App
C 726	15.6	1.0	44	9	US-09-907-824-21	Sequence 21, App	C 799	15.6	1.0	50	9	US-10-066-500-20	Sequence 20, App
C 727	15.6	1.0	44	9	US-09-907-824-21	Sequence 21, App	C 800	15.6	1.0	50	9	US-10-066-500-20	Sequence 20, App
C 728	15.6	1.0	44	9	US-09-907-841-21	Sequence 21, App	C 801	15.6	1.0	50	9	US-10-066-500-20	Sequence 20, App
C 729	15.6	1.0	44	9	US-09-904-011-21	Sequence 106, App	C 802	15.6	1.0	50	9	US-10-066-500-20	Sequence 20, App
C 730	15.6	1.0	44	9	US-09-749-873-106	Sequence 21, App	C 803	15.6	1.0	50	10	US-09-920-171-38	Sequence 38, App
C 731	15.6	1.0	44	9	US-09-906-838-21	Sequence 21, App	C 804	15.6	1.0	50	10	US-09-918-029-17	Sequence 17, App
C 732	15.6	1.0	44	9	US-09-907-613-21	Sequence 21, App	C 805	15.6	1.0	50	10	US-09-920-171-38	Sequence 17, App
C 733	15.6	1.0	44	9	US-09-907-942-21	Sequence 21, App	C 806	15.6	1.0	50	10	US-09-920-171-38	Sequence 17, App
C 734	15.6	1.0	44	9	US-09-904-820-21	Sequence 21, App	C 807	15.6	1.0	50	12	US-10-033-528-1257	Sequence 1257, App
C 735	15.6	1.0	44	9	US-09-904-859-21	Sequence 21, App	C 808	15.6	1.0	50	12	US-10-033-528-1257	Sequence 1257, App
C 736	15.6	1.0	44	9	US-09-904-859-21	Sequence 21, App	C 809	15.6	1.0	50	12	US-10-033-528-1257	Sequence 1257, App
C 737	15.6	1.0	44	9	US-09-909-204-21	Sequence 21, App	C 810	15.6	1.0	50	12	US-10-033-528-1257	Sequence 1257, App
C 738	15.6	1.0	44	9	US-09-904-820-21	Sequence 21, App	C 811	15.6	1.0	50	12	US-10-033-528-1257	Sequence 1257, App
C 739	15.6	1.0	44	9	US-09-906-646-21	Sequence 21, App	C 812	15.6	1.0	50	12	US-10-033-528-1257	Sequence 1257, App
C 740	15.6	1.0	44	9	US-09-906-700-21	Sequence 21, App	C 813	15.6	1.0	50	12	US-10-033-528-1257	Sequence 1257, App
C 741	15.6	1.0	44	9	US-09-902-903-21	Sequence 21, App	C 814	15.6	1.0	50	12	US-10-033-528-1257	Sequence 1257, App
C 742	15.6	1.0	44	9	US-09-903-749A-21	Sequence 21, App	C 815	15.6	1.0	50	12	US-10-033-528-1257	Sequence 1257, App
C 743	15.6	1.0	44	9	US-09-903-786-21	Sequence 21, App	C 816	15.6	1.0	50	12	US-10-033-528-1257	Sequence 1257, App
C 744	15.6	1.0	44	10	US-09-179-536B-252	Sequence 252, App	C 817	15.6	1.0	50	12	US-10-033-528-1257	Sequence 1257, App
C 745	15.6	1.0	44	10	US-09-909-320-21	Sequence 21, App	C 818	15.6	1.0	50	12	US-10-033-528-1257	Sequence 1257, App
C 746	15.6	1.0	44	10	US-09-909-088B-21	Sequence 21, App	C 819	15.6	1.0	50	12	US-10-033-528-1257	Sequence 1257, App
C 747	15.6	1.0	45	9	US-09-990-046-22	Sequence 22, App	C 820	15.6	1.0	50	12	US-10-033-528-1257	Sequence 1257, App
C 748	15.6	1.0	45	9	US-09-925-922-7	Sequence 7, Appl	C 821	15.6	1.0	50	12	US-10-033-528-1257	Sequence 1257, App
C 749	15.6	1.0	45	9	US-09-293-854-20	Sequence 20, Appl	C 822	15.6	1.0	50	12	US-10-033-528-1257	Sequence 1257, App

C 823	15.4	1.0	26	0	US-09-962-318-18	Sequence 18, Appl	C 896	15.4	1.0	47	10	US-09-975-408-56	Sequence 56, App
C 824	15.4	1.0	26	10	US-09-263-959-538	Sequence 538, App	C 897	15.4	1.0	47	12	US-10-075-579-56	Sequence 56, App
C 825	15.4	1.0	27	9	US-09-808-880-10	Sequence 10, Appl	C 898	15.4	1.0	49	8	US-08-978-633-10	Sequence 10, Appl
C 826	15.4	1.0	27	10	US-09-817-014-170	Sequence 170, App	C 899	15.4	1.0	49	8	US-08-978-633-10	Sequence 10, Appl
C 827	15.4	1.0	28	9	US-10-102-704-11	Sequence 11, Appl	C 900	15.4	1.0	49	8	US-08-978-633-10	Sequence 10, Appl
C 828	15.4	1.0	28	9	US-10-057-951-11	Sequence 11, Appl	C 901	15.4	1.0	49	8	US-08-978-633-10	Sequence 10, Appl
C 829	15.4	1.0	28	10	US-09-084-491A-11	Sequence 11, Appl	C 902	15.4	1.0	49	8	US-08-978-633-10	Sequence 10, Appl
C 830	15.4	1.0	29	10	US-09-873-737A-13	Sequence 13, Appl	C 903	15.4	1.0	50	9	US-09-905-291A-151	Sequence 151, App
C 831	15.4	1.0	31	9	US-09-773-599-15	Sequence 15, Appl	C 904	15.4	1.0	50	9	US-09-902-853-151	Sequence 151, App
C 832	15.4	1.0	31	9	US-10-023-610-103	Sequence 103, App	C 905	15.4	1.0	50	9	US-09-907-824-151	Sequence 151, App
C 833	15.4	1.0	31	9	US-09-912-263-154	Sequence 154, App	C 906	15.4	1.0	50	9	US-09-904-041-151	Sequence 151, App
C 834	15.4	1.0	31	9	US-09-912-263-144	Sequence 144, App	C 907	15.4	1.0	50	9	US-09-906-742-151	Sequence 151, App
C 835	15.4	1.0	31	9	US-09-779-152-103	Sequence 103, App	C 908	15.4	1.0	50	9	US-09-906-742-151	Sequence 151, App
C 836	15.4	1.0	31	10	US-09-817-360-17	Sequence 17, App	C 909	15.4	1.0	50	9	US-09-907-842-151	Sequence 151, App
C 837	15.4	1.0	31	10	US-09-801-274-909	Sequence 909, App	C 910	15.4	1.0	50	9	US-09-907-842-151	Sequence 151, App
C 838	15.4	1.0	31	10	US-09-801-274-928	Sequence 928, App	C 911	15.4	1.0	50	9	US-09-907-842-151	Sequence 151, App
C 839	15.4	1.0	31	10	US-09-801-274-1085	Sequence 1085, App	C 912	15.4	1.0	50	9	US-09-904-859-151	Sequence 151, App
C 840	15.4	1.0	32	10	US-09-910-120-47	Sequence 47, Appl	C 913	15.4	1.0	50	9	US-09-904-859-151	Sequence 151, App
C 841	15.4	1.0	32	10	US-09-910-120-48	Sequence 48, Appl	C 914	15.4	1.0	50	9	US-09-904-859-151	Sequence 151, App
C 842	15.4	1.0	32	10	US-09-910-120-52	Sequence 52, Appl	C 915	15.4	1.0	50	9	US-09-906-766-151	Sequence 151, App
C 843	15.4	1.0	34	9	US-09-778-900A-24	Sequence 24, Appl	C 916	15.4	1.0	50	9	US-09-906-766-151	Sequence 151, App
C 844	15.4	1.0	35	9	US-09-860-464-12	Sequence 12, Appl	C 917	15.4	1.0	50	9	US-09-902-903-151	Sequence 151, App
C 845	15.4	1.0	35	9	US-09-738-444A-31	Sequence 31, Appl	C 918	15.4	1.0	50	9	US-09-903-749A-151	Sequence 151, App
C 846	15.4	1.0	36	10	US-09-504-231A-1703	Sequence 1703, App	C 919	15.4	1.0	50	9	US-09-903-749A-151	Sequence 151, App
C 847	15.4	1.0	36	10	US-09-027-553D-1703	Sequence 1703, App	C 920	15.4	1.0	50	10	US-09-179-536B-302	Sequence 302, App
C 848	15.4	1.0	37	10	US-09-027-287-12	Sequence 12, Appl	C 921	15.4	1.0	50	10	US-09-909-320-151	Sequence 151, App
C 849	15.4	1.0	37	10	US-09-027-287-16	Sequence 16, Appl	C 922	15.4	1.0	50	10	US-09-909-320-151	Sequence 151, App
C 850	15.4	1.0	37	10	US-09-025-656B-12	Sequence 12, Appl	C 923	15.4	1.0	50	10	US-09-909-320-151	Sequence 151, App
C 851	15.4	1.0	37	10	US-09-252-656B-16	Sequence 16, Appl	C 924	15.2	1.0	20	9	US-10-125-181-8	Sequence 11, Appl
C 852	15.4	1.0	38	9	US-09-864-785-830	Sequence 830, App	C 925	15.2	1.0	25	10	US-09-966-108-3145	Sequence 8, Appl
C 853	15.4	1.0	38	10	US-09-874-547-68	Sequence 68, Appl	C 926	15.2	1.0	25	10	US-09-866-108-4470	Sequence 3145, App
C 854	15.4	1.0	38	10	US-09-874-547-77	Sequence 77, Appl	C 927	15.2	1.0	25	10	US-09-866-108-4470	Sequence 4470, App
C 855	15.4	1.0	39	9	US-10-046-922-74	Sequence 74, Appl	C 928	15.2	1.0	25	10	US-09-876-221-10	Sequence 4470, App
C 856	15.4	1.0	39	10	US-09-874-547-77	Sequence 77, Appl	C 929	15.2	1.0	25	10	US-09-876-221-10	Sequence 10, Appl
C 857	15.4	1.0	39	10	US-09-874-547-23	Sequence 23, Appl	C 930	15.2	1.0	29	10	US-09-810-502-30	Sequence 10, Appl
C 858	15.4	1.0	39	10	US-09-865-807-49	Sequence 49, Appl	C 931	15.2	1.0	29	10	US-09-730-857-57	Sequence 57, App
C 859	15.4	1.0	40	10	US-09-790-417-211	Sequence 211, App	C 932	15.2	1.0	29	10	US-09-953-052-16	Sequence 56, App
C 860	15.4	1.0	40	10	US-09-752-110A-12	Sequence 12, Appl	C 933	15.2	1.0	30	9	US-09-953-052-23	Sequence 16, Appl
C 861	15.4	1.0	41	9	US-10-201-310-10	Sequence 10, Appl	C 934	15.2	1.0	30	9	US-09-815-981-3	Sequence 22, Appl
C 862	15.4	1.0	42	9	US-09-943-722-96	Sequence 96, Appl	C 935	15.2	1.0	30	9	US-10-033-287-156	Sequence 72, Appl
C 863	15.4	1.0	42	10	US-09-853-379-9	Sequence 9, Appl	C 936	15.2	1.0	30	9	US-09-815-981-3	Sequence 156, App
C 864	15.4	1.0	42	10	US-09-971-798-24	Sequence 24, Appl	C 937	15.2	1.0	30	9	US-09-940-244-156	Sequence 3, Appl
C 865	15.4	1.0	43	10	US-09-832-658-13	Sequence 13, Appl	C 938	15.2	1.0	30	9	US-09-062-113-33	Sequence 156, App
C 866	15.4	1.0	43	10	US-09-760-574-16	Sequence 16, Appl	C 939	15.2	1.0	30	10	US-09-062-113-33	Sequence 33, Appl
C 867	15.4	1.0	43	10	US-09-855-266A-4	Sequence 4, Appl	C 940	15.2	1.0	30	10	US-09-863-179-7	Sequence 7, Appl
C 868	15.4	1.0	44	9	US-09-896-594-3	Sequence 3, Appl	C 941	15.2	1.0	31	9	US-09-773-599-8	Sequence 8, Appl
C 869	15.4	1.0	44	9	US-10-012-896-782	Sequence 782, App	C 942	15.2	1.0	31	9	US-10-200-154-110	Sequence 110, App
C 870	15.4	1.0	45	9	US-09-895-793-782	Sequence 782, App	C 943	15.2	1.0	31	9	US-09-912-263-188	Sequence 188, App
C 871	15.4	1.0	45	9	US-09-895-814-782	Sequence 782, App	C 944	15.2	1.0	31	9	US-09-912-263-210	Sequence 210, App
C 872	15.4	1.0	45	9	US-09-995-847-26	Sequence 26, Appl	C 945	15.2	1.0	31	9	US-09-912-263-371	Sequence 371, App
C 873	15.4	1.0	45	9	US-10-023-530-17	Sequence 17, Appl	C 946	15.2	1.0	31	9	US-09-912-263-498	Sequence 498, App
C 874	15.4	1.0	45	9	US-10-211-069-45	Sequence 45, Appl	C 947	15.2	1.0	31	9	US-09-801-274-381	Sequence 381, App
C 875	15.4	1.0	45	9	US-10-211-069-48	Sequence 48, Appl	C 948	15.2	1.0	31	10	US-09-801-274-381	Sequence 381, App
C 876	15.4	1.0	45	9	US-10-007-132-15	Sequence 15, Appl	C 949	15.2	1.0	31	10	US-09-801-274-381	Sequence 381, App
C 877	15.4	1.0	45	9	US-10-121-746-50	Sequence 50, Appl	C 950	15.2	1.0	31	10	US-09-801-274-381	Sequence 381, App
C 878	15.4	1.0	45	9	US-09-977-797A-121	Sequence 121, App	C 951	15.2	1.0	31	10	US-09-801-274-381	Sequence 381, App
C 879	15.4	1.0	45	10	US-09-742-693-3	Sequence 3, Appl	C 952	15.2	1.0	31	10	US-09-801-274-381	Sequence 381, App
C 880	15.4	1.0	45	10	US-09-759-143-782	Sequence 782, App	C 953	15.2	1.0	31	10	US-09-801-274-381	Sequence 381, App
C 881	15.4	1.0	45	10	US-09-780-669-782	Sequence 782, App	C 954	15.2	1.0	31	10	US-09-801-274-381	Sequence 381, App
C 882	15.4	1.0	45	10	US-09-822-827-782	Sequence 782, App	C 955	15.2	1.0	31	10	US-09-801-274-381	Sequence 381, App
C 883	15.4	1.0	46	7	US-08-911-824-115	Sequence 115, App	C 956	15.2	1.0	31	10	US-09-801-274-381	Sequence 381, App
C 884	15.4	1.0	46	9	US-09-995-847-25	Sequence 25, App	C 957	15.2	1.0	31	10	US-09-801-274-381	Sequence 381, App
C 885	15.4	1.0	46	9	US-09-900-379-65	Sequence 65, App	C 958	15.2	1.0	31	10	US-09-954-043-10	Sequence 43, Appl
C 886	15.4	1.0	46	9	US-09-900-379-70	Sequence 70, App	C 959	15.2	1.0	31	10	US-09-954-043-10	Sequence 43, Appl
C 887	15.4	1.0	46	10	US-09-848-164-69	Sequence 69, Appl	C 960	15.2	1.0	32	9	US-10-066-127-11	Sequence 18, Appl
C 888	15.4	1.0	46	10	US-09-848-164-70	Sequence 70, Appl	C 961	15.2	1.0	32	9	US-10-066-127-11	Sequence 18, Appl
C 889	15.4	1.0	47	9	US-09-853-526-59	Sequence 59, Appl	C 962	15.2	1.0	33	8	US-08-913-299-2	Sequence 5, Appl
C 890	15.4	1.0	47	9	US-10-026-914-4	Sequence 4, Appl	C 963	15.2	1.0	33	10	US-09-006-299-14	Sequence 2, Appl
C 891	15.4	1.0	47	9	US-09-880-464-15	Sequence 15, Appl	C 964	15.2	1.0	33	10	US-09-736-743A-1	Sequence 14, Appl
C 892	15.4	1.0	47	9	US-09-880-464-15	Sequence 15, Appl	C 965	15.2	1.0	33	10	US-09-850-716A-426	Sequence 426, App
C 893	15.4	1.0	47	10	US-09-785-632A-6	Sequence 6, Appl	C 966	15.2	1.0	33	10	US-09-912-787-15	Sequence 15, Appl
C 894	15.4	1.0	47	10	US-09-785-632A-13	Sequence 13, Appl	C 967	15.2	1.0	33	10	US-09-897-778-426	Sequence 426, App
C 895	15.4	1.0	47	10	US-09-901-484A-59	Sequence 59, Appl	C 968	15.2	1.0	33	12	US-10-014-326-1	Sequence 1, Appl

c969	15.2	1.0	34	10	US-09-908-805B-55	Sequence 55, Appl
c970	15.2	1.0	35	9	US-10-020-540A-7	Sequence 7, Appl
c971	15.2	1.0	35	9	US-09-940-550A-7	Sequence 7, Appl
c972	15.2	1.0	35	9	US-09-988-462-91	Sequence 91, Appl
c973	15.2	1.0	35	10	US-09-872-153-27	Sequence 27, Appl
c974	15.2	1.0	36	9	US-10-056-414-577	Sequence 577, Appl
c975	15.2	1.0	36	9	US-09-927-122-45	Sequence 49, Appl
c976	15.2	1.0	36	10	US-09-504-231A-2453	Sequence 2453, Ap
c977	15.2	1.0	36	10	US-09-504-331A-2664	Sequence 2664, Ap
c978	15.2	1.0	36	10	US-09-274-553D-2453	Sequence 2453, Ap
c979	15.2	1.0	36	10	US-09-274-553D-2664	Sequence 2664, Ap
c980	15.2	1.0	36	10	US-09-824-924-2	Sequence 2, Appl
c981	15.2	1.0	36	12	US-10-116-288-10	Sequence 10, Appl
c982	15.2	1.0	37	9	US-09-864-765-1737	Sequence 1737, Ap
c983	15.2	1.0	37	9	US-09-918-636-43	Sequence 43, Appl
c984	15.2	1.0	37	9	US-09-918-636-44	Sequence 44, Appl
c985	15.2	1.0	37	10	US-09-778-168-16	Sequence 16, Appl
c986	15.2	1.0	37	10	US-09-778-175-16	Sequence 16, Appl
c987	15.2	1.0	37	10	US-09-335-218-16	Sequence 16, Appl
c988	15.2	1.0	37	10	US-09-179-556B-245	Sequence 245, Appl
c989	15.2	1.0	38	9	US-09-864-785-742	Sequence 742, Ap
c990	15.2	1.0	38	9	US-09-864-785-1133	Sequence 1133, Ap
c991	15.2	1.0	38	10	US-09-179-536B-246	Sequence 246, Ap
c992	15.2	1.0	38	10	US-09-874-547-75	Sequence 75, Appl
c993	15.2	1.0	38	10	US-09-870-203A-23	Sequence 23, Appl
c994	15.2	1.0	38	10	US-09-870-203A-24	Sequence 24, Appl
c995	15.2	1.0	39	9	US-09-934-060A-7	Sequence 7, Appl
c996	15.2	1.0	39	9	US-10-000-512-24	Sequence 24, Appl
c997	15.2	1.0	39	9	US-09-977-418-85	Sequence 85, Appl
c998	15.2	1.0	39	9	US-09-940-244-204	Sequence 204, Ap
c999	15.2	1.0	39	9	US-09-940-244-205	Sequence 205, Ap
c1000	15.2	1.0	39	10	US-09-473-872-30	Sequence 30, Appl


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; Sequence 151, Application US/10006856A
; Publication No. US20030044841A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillen, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C14
; CURRENT APPLICATION NUMBER: US/10/006,856A
; PRIOR FILING DATE: 2002-05-10
; NUMBER OF SEQ ID NOS: 477
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 151
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide probe
US-10-006-856A-151
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Best Local Similarity 1.4%; Score 21.4; DB 9; Length 45;
Matches 28; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
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QY 763 GGTGACCTGGAGCAGCGCCACCAAGCTGTGTAAGA 801
DB 4 GATGCCACAGTATCAAGGAGCAGCAAAACTGTGAAGGA 42
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RESULT 5
US-10-135-984-6
; Sequence 6, Application US/10135984
; Publication No. US20020182595A1
; GENERAL INFORMATION:
; APPLICANT: Matthew D. Weltman
; APPLICANT: Anton J. Cathomen
; TITLE OF INVENTION: METHOD OF IDENTIFYING CELLULAR
; FILE REFERENCE: SALKINS.041A
; CURRENT APPLICATION NUMBER: US/10/135,984
; PRIOR FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: 60/286951
; PRIOR FILING DATE: 2001-04-27
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 45
; TYPE: DNA
; ORGANISM: adeno-associated virus
US-10-135-984-6
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Query Match
Best Local Similarity 1.3%; Score 20.8; DB 9; Length 45;
Matches 28; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
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DB 5 GTGAGCGAGCGAGCGCGAGGTGAGCGAGCGCGCGCAG 44
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RESULT 6

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US-10-135-984-4
; Sequence 4, Application US/10135984
; Publication No. US20020182595A1
; GENERAL INFORMATION:
; APPLICANT: Matthew D. Weltman
; APPLICANT: Anton J. Cathomen
; TITLE OF INVENTION: METHOD OF IDENTIFYING CELLULAR
; FILE REFERENCE: SALKINS.041A
; CURRENT APPLICATION NUMBER: US/10/135,984
; PRIOR FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: 60/286951
; PRIOR FILING DATE: 2001-04-27
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 46
; TYPE: DNA
; ORGANISM: adeno-associated virus
US-10-135-984-4
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Query Match
Best Local Similarity 1.3%; Score 20.8; DB 9; Length 46;
Matches 28; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
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QY 1 GCGAGCAGCCAGCAGGAGAGAGCGCGGCGAGCCG 40
DB 6 GTGAGCGAGCGAGCGCGAGGTGAGCGAGCGCGCGCAG 45
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RESULT 7
US-10-135-984-5/C
; Sequence 5, Application US/10135984
; Publication No. US20020182595A1
; GENERAL INFORMATION:
; APPLICANT: Matthew D. Weltman
; APPLICANT: Anton J. Cathomen
; TITLE OF INVENTION: METHOD OF IDENTIFYING CELLULAR
; FILE REFERENCE: SALKINS.041A
; CURRENT APPLICATION NUMBER: US/10/135,984
; PRIOR FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: 60/286951
; PRIOR FILING DATE: 2001-04-27
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 46
; TYPE: DNA
; ORGANISM: adeno-associated virus
US-10-135-984-5
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Query Match
Best Local Similarity 1.3%; Score 20.8; DB 9; Length 46;
Matches 28; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
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QY 1 GCGAGCAGCCAGCAGGAGAGAGCGCGGCGAGCCG 40
DB 45 GTGAGCGAGCGAGCGCGAGGTGAGCGAGCGCGCGCAG 6
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RESULT 8
US-10-135-984-7/C
; Sequence 7, Application US/10135984
; Publication No. US20020182595A1
; GENERAL INFORMATION:
; APPLICANT: Matthew D. Weltman
; APPLICANT: Anton J. Cathomen
; TITLE OF INVENTION: METHOD OF IDENTIFYING CELLULAR
; FILE REFERENCE: SALKINS.041A
; CURRENT APPLICATION NUMBER: US/10/135,984
; PRIOR FILING DATE: 2002-08-05
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; TITLE OF INVENTION: NO. US20020142438A1e1 Pectate Lyases
; FILE REFERENCE: 5378.200-US
; CURRENT APPLICATION NUMBER: US/10/072.152
; CURRENT FILING DATE: 2002-02-07
; PRIOR APPLICATION NUMBER: US/09/198.955
; PRIOR FILING DATE: 1998-11-24
; PRIOR APPLICATION NUMBER: 1343/97
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 1344/97
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/067.249
; PRIOR FILING DATE: 1997-12-02
; PRIOR APPLICATION NUMBER: 60/067.240
; PRIOR FILING DATE: 1997-12-02
; PRIOR APPLICATION NUMBER: 09/073.684
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 09/184.217
; PRIOR FILING DATE: 1998-11-02
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 32
; LENGTH: 48
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
; US-10-072-152-32

Query Match      1.3%  Score 20.2; DB 12; Length 48;
Best Local Similarity 68.3%; Pred. No. 1.4e+05;
Matches 28; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

OY 1451 TGGTACTGCGAGCTGCTTACCAATAGGACCTGCTCCT 1491
Db 5 TGAGACGGCGCGCGCTATACACACTGCGCACGGGTTCTT 45

RESULT 13
; US-09-992-598-122
; Sequence 122, Application US/09992598
; Patent No. US20020160384A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Bolstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C20
; CURRENT APPLICATION NUMBER: US/09/992.598
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
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; PRIOR APPLICATION NUMBER: 60/089105
; PRIOR FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: 60/089440
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16	PRIOR APPLICATION NUMBER: 60/089653
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19	PRIOR FILING DATE: 1998-06-18
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33	PRIOR FILING DATE: 1998-06-22
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35	PRIOR FILING DATE: 1998-06-22
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37	PRIOR FILING DATE: 1998-06-23
38	PRIOR APPLICATION NUMBER: 60/090355
39	PRIOR FILING DATE: 1998-06-23
40	PRIOR APPLICATION NUMBER: 60/090429
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47	PRIOR FILING DATE: 1998-06-24
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53	PRIOR FILING DATE: 1998-06-24
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55	PRIOR FILING DATE: 1998-06-24
56	PRIOR APPLICATION NUMBER: 60/090542
57	PRIOR FILING DATE: 1998-06-24
58	PRIOR APPLICATION NUMBER: 60/090557
59	PRIOR FILING DATE: 1998-06-24
60	PRIOR APPLICATION NUMBER: 60/090676
61	PRIOR FILING DATE: 1998-06-25
62	PRIOR APPLICATION NUMBER: 60/090678
63	PRIOR FILING DATE: 1998-06-25
64	PRIOR APPLICATION NUMBER: 60/090695
65	PRIOR FILING DATE: 1998-06-25
66	PRIOR APPLICATION NUMBER: 60/090696
67	PRIOR FILING DATE: 1998-06-25
68	PRIOR APPLICATION NUMBER: 60/090862
69	PRIOR FILING DATE: 1998-06-25
70	PRIOR APPLICATION NUMBER: 60/090862

1	PRIOR APPLICATION	NUMBER: 60/09080863
2	PRIOR FILING DATE: 1998-06-26	
3	PRIOR APPLICATION	NUMBER: 60/09136060
4	PRIOR FILING DATE: 1998-07-01	
5	PRIOR APPLICATION	NUMBER: 60/09147870
6	PRIOR FILING DATE: 1998-07-01	
7	PRIOR APPLICATION	NUMBER: 60/09154444
8	PRIOR FILING DATE: 1998-07-01	
9	PRIOR APPLICATION	NUMBER: 60/09151519
10	PRIOR FILING DATE: 1998-07-02	
11	PRIOR APPLICATION	NUMBER: 60/09162626
12	PRIOR FILING DATE: 1998-07-02	
13	PRIOR APPLICATION	NUMBER: 60/09163333
14	PRIOR FILING DATE: 1998-07-02	
15	PRIOR APPLICATION	NUMBER: 60/09197878
16	PRIOR FILING DATE: 1998-07-07	
17	PRIOR APPLICATION	NUMBER: 60/09198282
18	PRIOR FILING DATE: 1998-07-07	
19	PRIOR APPLICATION	NUMBER: 60/09218282
20	PRIOR FILING DATE: 1998-07-09	

Query Match	1.3%;	Score 20;	DB 9;	Length 45;
Best Local Similarity	65.9%;	Pred. No. 1.5e+05;		
Matches	29;	Conservative	0;	Mismatches 15;
			Indels	0;
			Gaps	0;

QY	1400	GCTCCAGGTGCTGCCGACGCTCCGGGTGCGGGGCCACCGCGGG	1443
Db	2	GCTGCTCTGCTGCGCGCGCTGCTGTGGGGGCTTCCGCGCGG	45

RESULT 14
US-09-989-293A-122
; Sequence 122, Application US/09989293A
Patent No. US20020177164A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertlisen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic Acids Encoding the Same
FILE REFERENCE: P2730P1C66
CURRENT APPLICATION NUMBER: US/09/989, 293A
CURRENT FILING DATE: 2001-11-20
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770

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7	PRIOR FILING DATE: 1998-04-28	7	PRIOR APPLICATION NUMBER: 60/089600
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9	PRIOR FILING DATE: 1998-05-07	9	PRIOR APPLICATION NUMBER: 60/089653
10	PRIOR APPLICATION NUMBER: 60/087106	10	PRIOR FILING DATE: 1998-06-17
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13	PRIOR FILING DATE: 1998-06-02	13	PRIOR APPLICATION NUMBER: 60/089907
14	PRIOR APPLICATION NUMBER: 60/087609	14	PRIOR FILING DATE: 1998-06-18
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16	PRIOR APPLICATION NUMBER: 60/087759	16	PRIOR FILING DATE: 1998-06-18
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18	PRIOR APPLICATION NUMBER: 60/087827	18	PRIOR FILING DATE: 1998-06-19
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21	PRIOR FILING DATE: 1998-06-04	21	PRIOR APPLICATION NUMBER: 60/089952
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38	PRIOR APPLICATION NUMBER: 60/088202	38	PRIOR FILING DATE: 1998-06-24
39	PRIOR FILING DATE: 1998-06-05	39	PRIOR APPLICATION NUMBER: 60/090444
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48	PRIOR APPLICATION NUMBER: 60/088738	48	PRIOR FILING DATE: 1998-06-24
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51	PRIOR FILING DATE: 1998-06-10	51	PRIOR APPLICATION NUMBER: 60/090557
52	PRIOR APPLICATION NUMBER: 60/088810	52	PRIOR FILING DATE: 1998-06-24
53	PRIOR FILING DATE: 1998-06-10	53	PRIOR APPLICATION NUMBER: 60/090676
54	PRIOR APPLICATION NUMBER: 60/088824	54	PRIOR FILING DATE: 1998-06-25
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56	PRIOR APPLICATION NUMBER: 60/088826	56	PRIOR FILING DATE: 1998-06-25
57	PRIOR FILING DATE: 1998-06-10	57	PRIOR APPLICATION NUMBER: 60/090690
58	PRIOR APPLICATION NUMBER: 60/088858	58	PRIOR FILING DATE: 1998-06-25
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63	PRIOR FILING DATE: 1998-06-11	63	PRIOR APPLICATION NUMBER: 60/090696
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67	PRIOR FILING DATE: 1998-06-16	67	PRIOR APPLICATION NUMBER: 60/090863
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69	PRIOR FILING DATE: 1998-06-16		

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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
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PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match
Best Local Similarity 1.3%; Score 20; DB 9; Length 45;
Matches 29; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 1400 GCTCAGTGTCTGCGACGCTCCGGGTCGGGCGCCACCGCGG 1443
DB 2 GCTGCTCTGCTGCTCCGCGCTGCTGCTGCGGCGCTTCCCGCGG 45

RESULT 15
US-09-989-735-122
Sequence 122, Application US/09989735
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferreira, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Geritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Peoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C61
CURRENT FILING DATE: 2001-11-19
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
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PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28

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PRIOR APPLICATION NUMBER: 60/089538
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089598
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PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600

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; PRIOR APPLICATION NUMBER: 60/089653
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089801
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; PRIOR APPLICATION NUMBER: 60/091978
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; PRIOR FILING DATE: 1998-07-07
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; PRIOR FILING DATE: 1998-07-09

Query Match 1.3%; Score 20; DB 9; Length 45;
Best Local Similarity 65.9%; Pred. No. 1.5e+05;
Matches 29; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 1400 GCTCAGTCGTCGCCGCTCCGGTCCGGGCGCCGCCGCGG 1443
DB 2 GCTCAGTCGTCGCCGCTCCGCTCCTGCTGCGGCGCTTCCCGCGG 45

RESULT 16
US-09-990-444-122
; Publication 122, Application US/09990444
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Bolstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gertlsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C19
; CURRENT APPLICATION NUMBER: US/09/990,444
; PRIOR FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
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64	PRIOR APPLICATION NUMBER: 60/089599
65	PRIOR FILING DATE: 1998-06-17
66	PRIOR APPLICATION NUMBER: 60/089600
67	PRIOR FILING DATE: 1998-06-17
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69	PRIOR FILING DATE: 1998-06-17
70	PRIOR APPLICATION NUMBER: 60/089801
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73	PRIOR FILING DATE: 1998-06-18

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PRIOR APPLICATION	NUMBER: 60/089948
PRIOR FILING DATE:	1998-06-19
PRIOR APPLICATION	NUMBER: 60/089952
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PRIOR FILING DATE:	1998-06-22
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PRIOR FILING DATE:	1998-06-23
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PRIOR APPLICATION	NUMBER: 60/090431
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PRIOR APPLICATION	NUMBER: 60/092182
PRIOR FILING DATE:	1998-07-09

Query Match 1.3% Score 20; DB 9; Length 45;
Best Local Similarity 65.9%; Pred. No. 1.5e+05;
Matches 29; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 1400 GCTCCAGTCTGCTCCGACGTCCTCCGGGGGACCGCGG 1443
DB 2 GCTCTCTCTGCTGCTCCGCTGCTGCTGGGGGCTTCCCGCGG 45

RESULT 17

US-09-989-730-122

; Sequence 122, Application US/09989730

; Publication No. US20020197674A1

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi J.

; APPLICANT: Baker, Kevin P.

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Fong, Sherman

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gertsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Grimaldi, J. Christopher

; APPLICANT: Gurney, Austin L.

; APPLICANT: Kijavlin, Ivar J.

; APPLICANT: Napier, Mary A.

; APPLICANT: Pan, James

; APPLICANT: Paoli, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Watanabe, Colin K.

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE REFERENCE: P2730P1C69

; CURRENT APPLICATION NUMBER: US/09/989,730

; PRIOR FILING DATE: 2001-11-20

; PRIOR APPLICATION NUMBER: 60/049787

; PRIOR FILING DATE: 1997-06-16

; PRIOR APPLICATION NUMBER: 60/062250

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; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 1.3%; Score 20; DB 9; Length 45;
Best Local Similarity 65.9%; Pred. No. 1.5e+05;
Matches 29; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 1400 GCTCCAGTCTGCTCCGACGCTCCGCGGCGGCGCCACCGCGG 1443
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RESULT 19
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; Sequence 122, Application US/09991181
; Publication No. US20020197615A1
; GENERAL INFORMATION:
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APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Bolstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Geritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C3
CURRENT APPLICATION NUMBER: US/09/991,181
CURRENT FILING DATE: 2001-11-16
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
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: PRIOR FILING DATE: 1998-07-09

Query Match      1.3%; Score 20; DB 9; Length 45;
Best Local Similarity 65.9%; Pred. No. 1.5e+05;
Matches 29; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

OY 1400 GCTCAGTCTGCTCCGACGCTCGGCGGCGCCACCGCGG 1443
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RESULT 20
: Sequence 122, Application US/0993687
: Publication No. US20020198149A1
: GENERAL INFORMATION:
: APPLICANT: Ashtkenazi, Avi J.
: APPLICANT: Baker, Kevin P.
: APPLICANT: Botstein, David
: APPLICANT: Desnoyers, Luc
: APPLICANT: Baton, Dan L.
: APPLICANT: Ferrara, Napoleone
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: APPLICANT: Gerber, Hanspeter
: APPLICANT: Gertlisen, Mary E.
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul J.
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: APPLICANT: Gurney, Austin L.
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: APPLICANT: Stewart, Timothy A.
: APPLICANT: Tumas, Daniel
: APPLICANT: Watanabe, Colin K.
: APPLICANT: Williams, P. Mickey
: APPLICANT: Wood, William I.
: APPLICANT: Zhang, Zemin
: TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
: TITLE OF INVENTION: Acids Encoding the Same
: FILE REFERENCE: P2/30PIC11
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: PRIOR APPLICATION NUMBER: 60/049787
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: PRIOR APPLICATION NUMBER: 60/088212
: PRIOR FILING DATE: 1998-06-05
: PRIOR APPLICATION NUMBER: 60/088217
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PRIOR FILING DATE: 1998-06-05
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PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: 60/088734
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PRIOR APPLICATION NUMBER: 60/088742
PRIOR FILING DATE: 1998-06-10
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PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088861
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088876
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089440
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PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
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PRIOR FILING DATE: 1998-06-18
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PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24

PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090535
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090540
PRIOR FILING DATE: 1998-06-24
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PRIOR APPLICATION NUMBER: 60/090557
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PRIOR APPLICATION NUMBER: 60/090678
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PRIOR APPLICATION NUMBER: 60/090690
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PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
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PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
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PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 1.3%; Score 20; DB 9; Length 45;
Best Local Similarity 65.9%; Pred. No. 1.5e+05;
Matches 29; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 1400 GCTCAGGTGCTGCGGACGCTCCGGGTGCGGGGCGCACCGCGG 1443
||| | ||||| |||| | ||| ||| ||| |
Db 2 GCTGCTCTGCTGCTGCGGCGGCTGCTGCTGCGGCGCTTCCCGCGG 45

RESULT 21
US-09-989-734-122
Publication 122, Application US/09989734
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, V. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.

APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC64
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/049877
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
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PRIOR APPLICATION NUMBER: 60/083322
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PRIOR APPLICATION NUMBER: 60/084600
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PRIOR APPLICATION NUMBER: 60/087106
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PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
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PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088028
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
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PRIOR APPLICATION NUMBER: 60/088212
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PRIOR APPLICATION NUMBER: 60/088217
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PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
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PRIOR FILING DATE: 1998-06-10

PRIOR APPLICATION NUMBER: 60/088742
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PRIOR FILING DATE: 1998-06-10
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PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
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PRIOR APPLICATION NUMBER: 60/090472
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PRIOR APPLICATION NUMBER: 60/090535
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090540
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090542

PRIOR FILING DATE: 1998-06-24
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PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090676
PRIOR FILING DATE: 1998-06-25
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PRIOR APPLICATION NUMBER: 60/090695
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090696
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PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 1.3%; Score 20; DB 9; Length 45;
Best Local Similarity 65.9%; Pred. No. 1.5e+05;
Matches 29; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Oy 1400 GCTCCAGTGTCTGCGGAGCTCCGGGTCGCGGCGCCACCGCGGG 1443
Db 2 GCTCTCTCTGCTGCGCGGCTGCTGCGGCGCTTCCGCGCGG 45

RESULT 22
US-09-997-653-122

; Sequence 122, Application US/09997653
; Publication No. US2003008297A1

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Bolstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gertlisen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gunney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tamas, Daniel
; APPLICANT: Watanabe, Colin K.

APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C38
CURRENT APPLICATION NUMBER: US/09/997,653
CURRENT FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084500
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
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PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
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PRIOR APPLICATION NUMBER: 60/087827
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PRIOR APPLICATION NUMBER: 60/088026
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PRIOR APPLICATION NUMBER: 60/088033
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PRIOR APPLICATION NUMBER: 60/088212
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PRIOR APPLICATION NUMBER: 60/088217
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PRIOR APPLICATION NUMBER: 60/088655
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PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088738
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088742
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088810
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088824
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088826

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1 PRIOR APPLICATION NUMBER: 60/090690
2 PRIOR FILING DATE: 1998-06-25
3 PRIOR APPLICATION NUMBER: 60/090694
4 PRIOR FILING DATE: 1998-06-25
5 PRIOR APPLICATION NUMBER: 60/090695
6 PRIOR FILING DATE: 1998-06-25
7 PRIOR APPLICATION NUMBER: 60/090696
8 PRIOR FILING DATE: 1998-06-25
9 PRIOR APPLICATION NUMBER: 60/090862
10 PRIOR FILING DATE: 1998-06-26
11 PRIOR APPLICATION NUMBER: 60/090863
12 PRIOR FILING DATE: 1998-06-26
13 PRIOR APPLICATION NUMBER: 60/091360
14 PRIOR FILING DATE: 1998-07-01
15 PRIOR APPLICATION NUMBER: 60/091478
16 PRIOR FILING DATE: 1998-07-02
17 PRIOR APPLICATION NUMBER: 60/091544
18 PRIOR FILING DATE: 1998-07-01
19 PRIOR APPLICATION NUMBER: 60/091519
20 PRIOR FILING DATE: 1998-07-02
21 PRIOR APPLICATION NUMBER: 60/091626
22 PRIOR FILING DATE: 1998-07-02
23 PRIOR APPLICATION NUMBER: 60/091633
24 PRIOR FILING DATE: 1998-07-02
25 PRIOR APPLICATION NUMBER: 60/091978
26 PRIOR FILING DATE: 1998-07-07
27 PRIOR APPLICATION NUMBER: 60/091982
28 PRIOR FILING DATE: 1998-07-07
29 PRIOR APPLICATION NUMBER: 60/092182
30 PRIOR FILING DATE: 1998-07-09

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Query Match	1.3%;	Score 20;	DB 9;	Length 45;
Best Local Similarity	65.9%;	Pred. No. 1.5e+05;		
Matches	29;	Conservative	0;	Mismatches 15; Indels

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0; Gaps 0;
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US-09-993-667-122	RESULT 23
Sequence 122, Application US/09993667	
Publication No. US20030022187A1	
GENERAL INFORMATION:	
APPLICANT: Ashkenazi, Avi J.	
APPLICANT: Baker, Kevin P.	
APPLICANT: Botstein, David	
APPLICANT: Desnoyers, Luc	
APPLICANT: Eaton, Dan L.	
APPLICANT: Ferrara, Napoleone	
APPLICANT: Fong, Sherman	
APPLICANT: Gerber, Hanspeter	
APPLICANT: Gertlisen, Mary E.	
APPLICANT: Goddard, Audrey E.	
APPLICANT: Godowski, Paul J.	
APPLICANT: Grimaldi, J. Christopher	
APPLICANT: Gurney, Austin L.	
APPLICANT: Kijavlin, Ivar J.	
APPLICANT: Napier, Mary A.	
APPLICANT: Pan, James	
APPLICANT: Paoni, Nicholas F.	
APPLICANT: Roy, Margaret Ann	
APPLICANT: Stewart, Timothy A.	
APPLICANT: Tumas, Daniel	
APPLICANT: Watanabe, Colin K.	
APPLICANT: Williams, P. Mickey	
APPLICANT: Wood, William I.	
APPLICANT: Zhang, Zemin	
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic	
TITLE OF INVENTION: Acids Encoding the Same	
FILE REFERENCE: P2/30PIC4	
CURRENT APPLICATION NUMBER: US/09/993,667	

1	CURRENT FILING DATE:	2001-11-14
2	PRIOR APPLICATION NUMBER:	60/049787
3	PRIOR FILING DATE:	1997-06-16
4	PRIOR APPLICATION NUMBER:	60/062250
5	PRIOR FILING DATE:	1997-10-17
6	PRIOR APPLICATION NUMBER:	60/065186
7	PRIOR FILING DATE:	1997-11-12
8	PRIOR APPLICATION NUMBER:	60/065311
9	PRIOR FILING DATE:	1997-11-13
10	PRIOR APPLICATION NUMBER:	60/066770
11	PRIOR FILING DATE:	1997-11-24
12	PRIOR APPLICATION NUMBER:	60/075945
13	PRIOR FILING DATE:	1998-02-25
14	PRIOR APPLICATION NUMBER:	60/078910
15	PRIOR FILING DATE:	1998-03-20
16	PRIOR APPLICATION NUMBER:	60/083322
17	PRIOR FILING DATE:	1998-04-28
18	PRIOR APPLICATION NUMBER:	60/084600
19	PRIOR FILING DATE:	1998-05-07
20	PRIOR APPLICATION NUMBER:	60/087106
21	PRIOR FILING DATE:	1998-05-28
22	PRIOR APPLICATION NUMBER:	60/087607
23	PRIOR FILING DATE:	1998-06-02
24	PRIOR APPLICATION NUMBER:	60/087609
25	PRIOR FILING DATE:	1998-06-02
26	PRIOR APPLICATION NUMBER:	60/087759
27	PRIOR FILING DATE:	1998-06-02
28	PRIOR APPLICATION NUMBER:	60/087827
29	PRIOR FILING DATE:	1998-06-03
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35	PRIOR FILING DATE:	1998-06-04
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37	PRIOR FILING DATE:	1998-06-04
38	PRIOR APPLICATION NUMBER:	60/088029
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41	PRIOR FILING DATE:	1998-06-04
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44	PRIOR APPLICATION NUMBER:	60/088326
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46	PRIOR APPLICATION NUMBER:	60/088167
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48	PRIOR APPLICATION NUMBER:	60/088202
49	PRIOR FILING DATE:	1998-06-05
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52	PRIOR APPLICATION NUMBER:	60/088217
53	PRIOR FILING DATE:	1998-06-05
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57	PRIOR FILING DATE:	1998-06-10
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66	PRIOR APPLICATION NUMBER:	60/088826
67	PRIOR FILING DATE:	1998-06-10
68	PRIOR APPLICATION NUMBER:	60/088858
69	PRIOR FILING DATE:	1998-06-11
70	PRIOR APPLICATION NUMBER:	60/088861
71	PRIOR FILING DATE:	1998-06-11
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73	PRIOR FILING DATE:	1998-06-11

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APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Grimaldi, Paul J.
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APPLICANT: Gurney, Austin L.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tunas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
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PRIOR FILING DATE: 1998-07-09

Query Match 1.3%; Score 20; DB 9; Length 45;
Best Local Similarity 65.9%; Pred. No. 1.5e+05;
Matches 29; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

OY 1400 GCTCCAGTCTGCTCCGAGCTCCGGGTGCGGGGCGCCACGGCGGG 1443
||| | ||||| |||| | ||| ||||| |||
Db 2 GCTGCTCTGCTCCGCGGCTGCTGCTGCGGCGCTTCGCCGCGG 45

Search completed: March 14, 2003, 01:18:09
Job time : 167 secs

GenCore version 5.1.4.p5.4578
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OM nucleic - nucleic search, using sw model

Run on: March 13, 2003, 21:47:38 ; Search time 2407 Seconds

(without alignments)
10604.108 Million cell updates/sec

Title: US-10-001-844-3

Perfect score: 1576

Sequence: 1 gcgagcgccagcgagggga.....gagggcgcgagggagggcc 1576

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 16154066 seqs, 8097743376 residues

Total number of hits satisfying chosen parameters: 102860

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 1000 summaries

Database :

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2: em_esthum:*
3: em_estlu:*
4: em_estmu:*
5: em_estov:*
6: em_estpl:*
7: em_estro:*
8: em_hic:*
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10: gb_est2:*
11: gb_hic:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estlum:*
16: em_estom:*
17: gb_gss:*
18: em_gss_hum:*
19: em_gss_liv:*
20: em_gss_pln:*
21: em_gss_vit:*
22: em_gss_fun:*
23: em_gss_man:*
24: em_gss_mus:*
25: em_gss_other:*
26: em_gss_pro:*
27: em_gss_rtd:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	25	1.6	49	9	BI772215
5	25	1.6	49	9	AA842027
6	25	1.6	49	10	AA842027 MBAFCF2D0
					AI813244 3G2 Pine
					AV833587 AV833587

7	24.4	1.5	49	12	BF970690
8	24.2	1.5	47	10	AV947640
9	23.8	1.5	45	13	B3000572
10	23.8	1.5	46	9	AI701058
11	23.8	1.5	47	10	AV955412
12	23.6	1.5	47	10	AV949300
13	23.6	1.5	47	17	AZ385990
14	23.6	1.5	47	17	AZ853064
15	23.6	1.5	47	17	AZ862836
16	23.6	1.5	47	17	AZ864870
17	23.4	1.5	45	9	AL676139
18	23.4	1.5	49	17	AZ335579
19	23.4	1.5	50	14	B0577141
20	23.2	1.5	44	10	AV672475
21	22.6	1.4	49	9	AA977986
22	22.6	1.4	50	9	AU103717
23	22.4	1.4	50	12	BG078033
24	22.4	1.4	50	14	B0807914
25	22.4	1.4	43	13	BI547391
26	22.2	1.4	43	17	AZ345546
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28	22.2	1.4	44	17	AZ974579
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31	22	1.4	32	17	AL762365
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34	22	1.4	35	17	AZ588848
35	22	1.4	36	17	AZ629871
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40	22	1.4	37	17	AZ666510
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43	22	1.4	38	17	AZ829800
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50	22	1.4	42	17	AZ499950
51	22	1.4	42	17	AZ801055
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C 87	21.4	1.4	44	17	A2656548	A2656548	1M0532H11	C 160	20.4	1.3	31	17	A2423749	A2423749	1M0203A22
C 88	21.4	1.4	40	17	A2342202	A2342202	1M0075G11	C 161	20.4	1.3	31	17	A2500410	A2500410	1M038E16
C 89	21.4	1.4	49	10	AV674036	AV674036	AV674036	C 162	20.4	1.3	31	17	A2622680	A2622680	1M0459I10
C 90	21.4	1.4	49	10	AV655544	AV655544	AV655544	C 163	20.4	1.3	31	17	A2638670	A2638670	1M0498M07
C 91	21.2	1.3	42	14	T54684	T54684	Yb4La05..r1	C 164	20.4	1.3	31	17	A2666842	A2666842	1M0506K13
C 92	21.2	1.3	42	17	A286548	A286548	1M0102I02	C 165	20.4	1.3	31	17	A2769451	A2769451	1M0570K07
C 93	21.2	1.3	42	17	A2941720	A2941720	1M0409P23	C 166	20.4	1.3	31	17	A2777026	A2777026	2M0011I08
C 94	21.2	1.3	48	17	A2596241	A2596241	1M0409P23	C 167	20.4	1.3	31	17	A2809076	A2809076	2M0072J20
C 95	21.2	1.3	50	12	BE976895	BE976895	bs57d03..Y	C 168	20.4	1.3	31	17	A281192	A281192	2M0086L22
C 96	21.2	1.3	50	12	BE976895	BE976895	bs57d03..Y	C 169	20.4	1.3	31	17	A2821192	A2821192	2M0093A24
C 97	21.2	1.3	50	12	BE976895	BE976895	bs57d03..Y	C 170	20.4	1.3	31	17	A2839201	A2839201	2M015M14
C 98	21.2	1.3	50	12	BE976895	BE976895	bs57d03..Y	C 171	20.4	1.3	31	17	A2860356	A2860356	2M016M13
C 99	21	1.3	29	17	A2764536	A2764536	1M0560M24	C 172	20.4	1.3	32	17	A2339938	A2339938	1M0071F11
C 100	21	1.3	31	17	A2798034	A2798034	2M0054C10	C 173	20.4	1.3	32	17	A2368233	A2368233	1M0118A13
C 101	21	1.3	31	17	A2861612	A2861612	2M0168P16	C 174	20.4	1.3	32	17	A2447211	A2447211	1M0244M08
C 102	21	1.3	33	17	A2484644	A2484644	1M0311H13	C 175	20.4	1.3	32	17	A245442	A245442	1M0255D22
C 103	21	1.3	34	17	TAL28E02Q	TAL28E02Q		C 176	20.4	1.3	32	17	A2590275	A2590275	1M0339U14
C 104	21	1.3	36	17	A2627849	A2627849	1M0474I13	C 177	20.4	1.3	32	17	A2590275	A2590275	1M046B0D7
C 105	21	1.3	37	17	A2871856	A2871856	2M0184C024	C 178	20.4	1.3	32	17	A2628915	A2628915	1M0481H21
C 106	21	1.3	38	17	A2333216	A2333216	1M0062N12	C 179	20.4	1.3	32	17	A2628915	A2628915	1M0560N23
C 107	21	1.3	39	17	A2949919	A2949919	2M0213B16	C 180	20.4	1.3	32	17	A2815555	A2815555	2M0130C13
C 108	21	1.3	40	17	A2793917	A2793917	2M0047L24	C 181	20.4	1.3	32	17	A2836103	A2836103	2M014A023
C 109	21	1.3	41	13	B1829324	B1829324	603079454	C 182	20.4	1.3	32	17	A2844990	A2844990	2M0168G23
C 110	21	1.3	42	17	A2590801	A2590801	1M0400N04	C 183	20.4	1.3	32	17	A2764538	A2764538	1M0560N23
C 111	21	1.3	43	17	A2864816	A2864816	2M0174A11	C 184	20.4	1.3	32	17	A2815555	A2815555	2M0083F23
C 112	21	1.3	47	9	AL630245	AL630245		C 185	20.4	1.3	32	17	A2815555	A2815555	2M0130C13
C 113	21	1.3	47	13	BT60112	BT60112	603044C04	C 186	20.4	1.3	33	17	A2949206	A2949206	2M0212M06
C 114	21	1.3	48	17	AL752522	AL752522	ArabiIdops	C 187	20.4	1.3	33	17	A2333205	A2333205	1M0129N03
C 115	21	1.3	49	10	BE282036	BE282036	601102010	C 188	20.4	1.3	33	17	A23755613	A23755613	1M0129N05
C 116	21	1.3	50	9	AU102581	AU102581		C 189	20.4	1.3	33	17	A2446945	A2446945	1M0243O06
C 117	21	1.3	50	9	AU103718	AU103718		C 190	20.4	1.3	33	17	A2463030	A2463030	1M0271D10
C 118	21	1.3	50	9	AU103950	AU103950		C 191	20.4	1.3	33	17	A2486747	A2486747	1M0315B04
C 119	21	1.3	50	9	AU104723	AU104723		C 192	20.4	1.3	33	17	A2580860	A2580860	1M036K17
C 120	21	1.3	50	9	AU104733	AU104733		C 193	20.4	1.3	33	17	A2580860	A2580860	1M036K17
C 121	21	1.3	50	9	AU105398	AU105398		C 194	20.4	1.3	33	17	A2627977	A2627977	1M0476L03
C 122	21	1.3	50	9	AU105398	AU105398		C 195	20.4	1.3	33	17	A2764525	A2764525	1M0560H17
C 123	21	1.3	50	9	AU105398	AU105398		C 196	20.4	1.3	33	17	A2781169	A2781169	2M0101E23
C 124	20.8	1.3	33	12	BE886705	BE886705	601507961	C 197	20.4	1.3	33	17	A2825930	A2825930	2M0214E01
C 125	20.8	1.3	33	12	BE886705	BE886705	601507961	C 198	20.4	1.3	33	17	A2964682	A2964682	2M0234A01
C 126	20.8	1.3	41	10	AV672637	AV672637		C 199	20.4	1.3	33	17	AL752290	AL752290	ArabiIdops
C 127	20.8	1.3	41	17	A2422755	A2422755		C 200	20.4	1.3	33	17	DR6D19T	DR6D19T	
C 128	20.8	1.3	42	10	AV957667	AV957667		C 201	20.4	1.3	34	17	A2321635	A2321635	1M0042I15
C 129	20.8	1.3	50	9	AL638201	AL638201		C 202	20.4	1.3	34	17	A2345707	A2345707	1M0080H02
C 130	20.6	1.3	36	17	AL763948	AL763948		C 203	20.4	1.3	34	17	A2375570	A2375570	1M0219H03
C 131	20.6	1.3	37	17	TA51G080	TA51G080		C 204	20.4	1.3	34	17	A245197	A245197	1M0275E01
C 132	20.6	1.3	43	17	AL752568	AL752568		C 205	20.4	1.3	34	17	A2625604	A2625604	1M0465D16
C 133	20.6	1.3	43	17	AL752568	AL752568		C 206	20.4	1.3	34	17	A2650496	A2650496	1M0520011
C 134	20.6	1.3	45	17	AL753618	AL753618		C 207	20.4	1.3	34	17	A2758966	A2758966	1M0551A18
C 135	20.6	1.3	45	17	AL753618	AL753618		C 208	20.4	1.3	34	17	A2830800	A2830800	2M0110D13
C 136	20.6	1.3	49	17	TA33D12P	TA33D12P		C 209	20.4	1.3	34	17	A2861717	A2861717	2M0168A23
C 137	20.6	1.3	50	9	AU103660	AU103660		C 210	20.4	1.3	34	17	A2966622	A2966622	2M0237O11
C 138	20.4	1.3	30	17	A2320274	A2320274		C 211	20.4	1.3	35	9	AL632985	AL632985	
C 139	20.4	1.3	30	17	A2320274	A2320274		C 212	20.4	1.3	35	17	A2317100	A2317100	1M0035E01
C 140	20.4	1.3	30	17	A2389258	A2389258		C 213	20.4	1.3	35	17	A2321115	A2321115	1M0041H02
C 141	20.4	1.3	30	17	A2390605	A2390605		C 214	20.4	1.3	35	17	A2609583	A2609583	1M0434L13
C 142	20.4	1.3	30	17	A2412491	A2412491		C 215	20.4	1.3	35	17	A2636745	A2636745	1M0495F14
C 143	20.4	1.3	30	17	A2464926	A2464926		C 216	20.4	1.3	35	17	A2764499	A2764499	1M0560K05
C 144	20.4	1.3	30	17	A2465216	A2465216		C 217	20.4	1.3	35	17	A2764535	A2764535	1M0560K22
C 145	20.4	1.3	30	17	A2465216	A2465216		C 218	20.4	1.3	35	17	A2784082	A2784082	2M0026E04
C 146	20.4	1.3	30	17	A2487848	A2487848		C 219	20.4	1.3	35	17	A2817073	A2817073	2M0086D07
C 147	20.4	1.3	30	17	A2490365	A2490365		C 220	20.4	1.3	35	17	A2831930	A2831930	2M0111O21
C 148	20.4	1.3	30	17	A2638210	A2638210		C 221	20.4	1.3	35	17	A2858898	A2858898	2M0164H14
C 149	20.4	1.3	30	17	A2764531	A2764531		C 222	20.4	1.3	35	17	A2967442	A2967442	2M0238F20
C 150	20.4	1.3	30	17	A2788303	A2788303		C 223	20.4	1.3	35	17	A2969917	A2969917	2M0242D20
C 151	20.4	1.3	30	17	A2807237	A2807237		C 224	20.4	1.3	35	17	AL752534	AL752534	ArabiIdops
C 152	20.4	1.3	30	17	A2824951	A2824951		C 225	20.4	1.3	36	17	A2337595	A2337595	1M0068O17

C 226	20.4	1.3	36	17	A2623038	A2623038	1M0460L13	C 299	20.4	1.3	44	17	A2853281	A2853281	2M0156F19
C 227	20.4	1.3	36	17	A2764529	A2764529	1M0560L17	C 300	20.4	1.3	44	17	A2959914	A2959914	2M0227G13
C 228	20.4	1.3	36	17	A2766476	A2766476	1M0564P01	C 301	20.4	1.3	44	17	A2442112	A2442112	1M0234K08
C 229	20.4	1.3	36	17	A2772448	A2772448	1M0583O18	C 302	20.4	1.3	45	17	A2822082	A2822082	2M0095F05
C 230	20.4	1.3	36	17	A2779795	A2779795	2M0012E19	C 303	20.4	1.3	45	17	A2822082	A2822082	ArabiIdops
C 231	20.4	1.3	36	17	A2799331	A2799331	2M0056D07	C 304	20.4	1.3	45	17	A2763837	A2763837	ArabiIdops
C 232	20.4	1.3	36	17	A2806045	A2806045	2M0056D07	C 305	20.4	1.3	46	17	A2510203	A2510203	1M0178B16
C 233	20.4	1.3	36	17	A2829267	A2829267	2M0067P17	C 306	20.4	1.3	46	17	A2510203	A2510203	1M0354K06
C 234	20.4	1.3	36	17	A2847658	A2847658	2M0106O14	C 307	20.4	1.3	46	17	A2650069	A2650069	1M0520I05
C 235	20.4	1.3	36	17	A2873086	A2873086	2M0186M07	C 308	20.4	1.3	47	17	A2597978	A2597978	2M0154K06
C 236	20.4	1.3	37	17	A2311322	A2311322	1M0026N11	C 309	20.4	1.3	47	17	A2805158	A2805158	1M0411C24
C 237	20.4	1.3	37	17	A2459123	A2459123	1M0256D16	C 310	20.4	1.3	47	17	A2851459	A2851459	2M0066K14
C 238	20.4	1.3	37	17	A2761163	A2761163	1M0556P18	C 311	20.4	1.3	47	17	A2854644	A2854644	2M0153P07
C 239	20.4	1.3	37	17	A2784558	A2784558	2M0027G15	C 312	20.4	1.3	48	17	A2646447	A2646447	1M0158O17
C 240	20.4	1.3	37	17	A2853189	A2853189	2M0156D13	C 313	20.4	1.3	48	17	AL759715	AL759715	ArabiIdops
C 241	20.4	1.3	37	17	A2897433	A2897433	2M0284A01	C 314	20.4	1.3	48	17	AL759715	AL759715	ArabiIdops
C 242	20.4	1.3	37	17	DR11K9T	DR11K9T	Danio rer	C 315	20.4	1.3	49	17	B3000259	B3000259	ArabiIdops
C 243	20.4	1.3	38	17	AM332997	AM332997	S16A3 AGS	C 316	20.4	1.3	49	17	A2656875	A2656875	1M0532M11
C 244	20.4	1.3	38	17	A2402445	A2402445	1M0169D13	C 317	20.4	1.3	49	17	A2764533	A2764533	1M0560017
C 245	20.4	1.3	38	17	A2462853	A2462853	1M0271D22	C 318	20.4	1.3	49	17	A2773388	A2773388	1M0584E23
C 246	20.4	1.3	38	17	A2479185	A2479185	1M0271D22	C 319	20.4	1.3	49	17	A2820100	A2820100	2M0092A12
C 247	20.4	1.3	38	17	A2490125	A2490125	1M0322J19	C 320	20.4	1.3	49	17	TA166G090	TA166G090	
C 248	20.4	1.3	38	17	A2500372	A2500372	1M0338M11	C 321	20.4	1.3	49	17	AU102224	AU102224	
C 249	20.4	1.3	38	17	A2512402	A2512402	1M0357H20	C 322	20.4	1.3	50	9	AU102925	AU102925	
C 250	20.4	1.3	38	17	A2657455	A2657455	1M0533H08	C 323	20.4	1.3	50	9	AU102925	AU102925	
C 251	20.4	1.3	38	17	A2777129	A2777129	1M0561J11	C 324	20.4	1.3	50	9	AU102931	AU102931	
C 252	20.4	1.3	38	17	A2764657	A2764657	1M0561J11	C 325	20.4	1.3	50	9	AU102940	AU102940	
C 253	20.4	1.3	38	17	A2861891	A2861891	2M0011P18	C 326	20.4	1.3	50	9	AU102940	AU102940	
C 254	20.4	1.3	38	17	A2863994	A2863994	2M0173B22	C 327	20.4	1.3	50	9	AU102941	AU102941	
C 255	20.4	1.3	38	17	A2973770	A2973770	2M0248C11	C 328	20.4	1.3	50	9	AU104457	AU104457	
C 256	20.4	1.3	39	10	AV673727	AV673727	2M0248C11	C 329	20.4	1.3	50	9	AU104462	AU104462	
C 257	20.4	1.3	39	10	AV673727	AV673727	2M0248C11	C 330	20.4	1.3	50	9	AU104462	AU104462	
C 258	20.4	1.3	39	17	A2345492	A2345492	1M0080E02	C 331	20.4	1.3	50	13	BI491464	BI491464	dfo9f10.*
C 259	20.4	1.3	39	17	A2402785	A2402785	1M0397F10	C 332	20.4	1.3	50	17	A2358097	A2358097	1M0100N08
C 260	20.4	1.3	39	17	A2588974	A2588974	1M0397F10	C 333	20.4	1.3	50	17	A2776590	A2776590	
C 261	20.4	1.3	39	17	A2589874	A2589874	1M0397F10	C 334	20.4	1.3	50	17	A2816605	A2816605	
C 262	20.4	1.3	39	17	A2779298	A2779298	1M0397F10	C 335	20.4	1.3	50	17	A2816605	A2816605	
C 263	20.4	1.3	39	17	DR11A19T	DR11A19T	Danio rer	C 336	20.4	1.3	50	17	A2816605	A2816605	
C 264	20.4	1.3	40	17	A2330731	A2330731	1M0056C12	C 337	20.4	1.3	50	17	A2816605	A2816605	
C 265	20.4	1.3	40	17	A2465284	A2465284	1M0275B10	C 338	20.2	1.3	50	17	A2816605	A2816605	
C 266	20.4	1.3	40	17	A2511352	A2511352	1M0556A24	C 339	20.2	1.3	50	17	A2816605	A2816605	
C 267	20.4	1.3	40	17	A2628038	A2628038	1M0476M17	C 340	20.2	1.3	50	17	A2816605	A2816605	
C 268	20.4	1.3	40	17	A2761020	A2761020	1M0555E08	C 341	20.2	1.3	50	17	A2816605	A2816605	
C 269	20.4	1.3	40	17	A2813980	A2813980	2M0081D06	C 342	20.2	1.3	50	17	A2816605	A2816605	
C 270	20.4	1.3	41	17	A2952893	A2952893	2M0217G24	C 343	20.2	1.3	50	17	A2816605	A2816605	
C 271	20.4	1.3	41	17	A2336102	A2336102	1M0066P10	C 344	20.2	1.3	50	17	A2816605	A2816605	
C 272	20.4	1.3	41	17	A2387155	A2387155	1M0066P10	C 345	20.2	1.3	50	17	A2816605	A2816605	
C 273	20.4	1.3	41	17	A2441468	A2441468	1M0233B16	C 346	20.2	1.3	50	17	A2816605	A2816605	
C 274	20.4	1.3	41	17	A2644592	A2644592	1M0233B16	C 347	20.2	1.3	50	17	A2816605	A2816605	
C 275	20.4	1.3	41	17	A2780599	A2780599	2M0018D11	C 348	20.2	1.3	50	17	A2816605	A2816605	
C 276	20.4	1.3	41	17	A2803708	A2803708	2M0064D17	C 349	20.2	1.3	50	17	A2816605	A2816605	
C 277	20.4	1.3	41	17	A2864299	A2864299	2M0173M14	C 350	20.2	1.3	50	17	A2816605	A2816605	
C 278	20.4	1.3	42	17	A2871797	A2871797	2M0184C24	C 351	20.2	1.3	50	17	A2816605	A2816605	
C 279	20.4	1.3	42	17	A2332776	A2332776	1M0061J22	C 352	20.2	1.3	50	17	A2816605	A2816605	
C 280	20.4	1.3	42	17	A2335178	A2335178	1M0064G22	C 353	20.2	1.3	50	17	A2816605	A2816605	
C 281	20.4	1.3	42	17	A2344739	A2344739	1M0078T21	C 354	20.2	1.3	50	17	A2816605	A2816605	
C 282	20.4	1.3	42	17	A2422685	A2422685	1M0201A01	C 355	20.2	1.3	50	17	A2816605	A2816605	
C 283	20.4	1.3	42	17	A2764537	A2764537	1M0560M21	C 356	20.2	1.3	50	17	A2816605	A2816605	
C 284	20.4	1.3	42	17	A2787936	A2787936	2M0034A13	C 357	20.2	1.3	50	17	A2816605	A2816605	
C 285	20.4	1.3	43	17	DR4N4T	DR4N4T	Danio rer	C 358	20.2	1.3	50	17	A2816605	A2816605	
C 286	20.4	1.3	43	17	A2439246	A2439246	1M0229K17	C 359	20.2	1.3	50	17	A2816605	A2816605	
C 287	20.4	1.3	43	17	A2462780	A2462780	1M0271G16	C 360	20.2	1.3	50	17	A2816605	A2816605	
C 288	20.4	1.3	43	17	A2779168	A2779168	1M0560U02	C 361	20.2	1.3	50	17	A2816605	A2816605	
C 289	20.4	1.3	43	17	A2817170	A2817170	2M0015M07	C 362	20.2	1.3	50	17	A2816605	A2816605	
C 290	20.4	1.3	43	17	A2820789	A2820789	2M0008P16	C 363	20.2	1.3	50	17	A2816605	A2816605	
C 291	20.4	1.3	43	17	A2848760	A2848760	2M00093A18	C 364	20.2	1.3	50	17	A2816605	A2816605	
C 292	20.4	1.3	43	17	AL752506	AL752506	ArabiIdops	C 365	20.2	1.3	50	17	A2816605	A2816605	
C 293	20.4	1.3	44	10	BE614040	BE614040	601503858	C 366	20.2	1.3	50	17	A2816605	A2816605	
C 294	20.4	1.3	44	17	A2439038	A2439038	1M0229Q24	C 367	20.2	1.3	50	17	A2816605	A2816605	
C 295	20.4	1.3	44	17	A2486433	A2486433	1M0314N20	C 368	20.2	1.3	50	17	A2816605	A2816605	
C 296	20.4	1.3	44	17	A2654673	A2654673	1M0528P20	C 369	20.2	1.3	50	17	A2816605	A2816605	
C 297	20.4	1.3	44	17	A2657476	A2657476	1M0533L12	C 370	20.2	1.3	50	17	A2816605	A2816605	
C 298	20.4	1.3	44	17	A2774067	A2774067	2M0003I01	C 371	19.8	1.3	39	17	A2330749	A2330749	1M0056J07

C 372	19.8	1.3	39	17	AZ987023	AZ987023	2M0269N24	445	19.2	1.2	39	17	AZ804350	AZ804350	2M0065M24
C 373	19.8	1.3	42	13	B1546340	B1546340	603188832	446	19.2	1.2	43	13	B103457	B103457	602888987
C 374	19.8	1.3	43	17	BH888835	BH888835	3526_1.30	C 447	19.2	1.2	44	13	B1001599	B1001599	602888987
C 375	19.8	1.3	48	17	AA399365	AA399365	zt50d07.s	C 448	19.2	1.2	48	13	B1463602	B1463602	603206257
C 376	19.8	1.3	48	17	AZ81877	AZ81877	1M0138E08	C 449	19.2	1.2	50	9	AU102333	AU102333	AU102333
C 377	19.8	1.3	49	17	AL595742	AL595742	AL595742	C 450	19.2	1.2	50	9	AU104789	AU104789	AU104789
C 378	19.8	1.3	50	9	AU102725	AU102725	AU102725	C 451	19.2	1.2	50	9	AU104790	AU104790	AU104790
C 379	19.8	1.3	50	9	AU104786	AU104786	AU104786	C 452	19.2	1.2	50	9	AU104794	AU104794	AU104794
C 380	19.8	1.3	50	9	AU104787	AU104787	AU104787	C 453	19.2	1.2	50	9	AU104796	AU104796	AU104796
C 381	19.8	1.3	50	9	AU104788	AU104788	AU104788	C 454	19.2	1.2	50	9	AU104797	AU104797	AU104797
C 382	19.8	1.3	50	9	AU104791	AU104791	AU104791	C 455	19.2	1.2	50	9	AU104799	AU104799	AU104799
C 383	19.8	1.3	50	9	AU104798	AU104798	AU104798	C 456	19.2	1.2	50	9	AU104803	AU104803	AU104803
C 384	19.8	1.3	50	9	AU104800	AU104800	AU104800	C 457	19.2	1.2	50	9	AU105180	AU105180	AU105180
C 385	19.8	1.3	50	9	AU106878	AU106878	AU106878	C 458	19.2	1.2	50	9	AU106870	AU106870	AU106870
C 386	19.8	1.3	50	9	AU106878	AU106878	AU106878	C 459	19.2	1.2	50	9	AU106941	AU106941	AU106941
C 387	19.6	1.2	26	17	AZ604431	AZ604431	1M0425114	C 460	19.2	1.2	27	17	AZ604434	AZ604434	1M0425118
C 388	19.6	1.2	34	17	AZ662785	AZ662785	1M0542C01	C 461	19.2	1.2	27	17	AZ649949	AZ649949	1M0519P18
C 389	19.6	1.2	34	17	AZ662785	AZ662785	2M0236J13	C 462	19.2	1.2	28	17	AZ640161	AZ640161	1M0501G23
C 390	19.6	1.2	39	13	B1687986	B1687986	603315748	C 463	19.2	1.2	28	17	AZ806290	AZ806290	1M0203B22
C 391	19.6	1.2	43	9	A1311377	A1311377	q088e07.x	C 464	19.2	1.2	28	17	AZ423751	AZ423751	1M0542C01
C 392	19.6	1.2	46	14	N44070	N44070	yy30f05.t1	C 465	19.2	1.2	29	17	AZ662726	AZ662726	1M0542C01
C 393	19.6	1.2	50	9	AU103951	AU103951	AU103951	C 466	19.2	1.2	29	17	BG821619	BG821619	602727622
C 394	19.6	1.2	50	9	AU103952	AU103952	AU103952	C 467	19.2	1.2	36	12	BG821619	BG821619	602727622
C 395	19.6	1.2	50	9	AU104069	AU104069	AU104069	C 468	19.2	1.2	36	17	AZ387862	AZ387862	1M0544E05
C 396	19.6	1.2	50	9	AU107430	AU107430	AU107430	C 469	19.2	1.2	36	17	AZ664037	AZ664037	1M0544E05
C 397	19.6	1.2	50	9	AU107431	AU107431	AU107431	C 470	19.2	1.2	39	17	AZ846058	AZ846058	2M0146B07
C 398	19.6	1.2	50	9	AU107644	AU107644	AU107644	C 471	19.2	1.2	40	9	A1088727	A1088727	qa16e11.x
C 399	19.6	1.2	50	9	AU108067	AU108067	AU108067	C 472	19.2	1.2	44	12	BF979583	BF979583	602288053
C 400	19.6	1.2	50	9	AU108068	AU108068	AU108068	C 473	19.2	1.2	45	17	AZ833436	AZ833436	2M015G01
C 401	19.6	1.2	50	9	AU108069	AU108069	AU108069	C 474	19.2	1.2	48	13	B1468833	B1468833	603174412
C 402	19.6	1.2	50	9	AU108070	AU108070	AU108070	C 475	19.2	1.2	49	9	B1465900	B1465900	603174420
C 403	19.6	1.2	50	9	AU108072	AU108072	AU108072	C 476	19.2	1.2	49	9	AA775622	AA775622	zt30f12.s
C 404	19.6	1.2	50	9	AU108074	AU108074	AU108074	C 477	19.2	1.2	49	17	TA386B04P	TA386B04P	TA386B04P
C 405	19.6	1.2	50	9	AU108076	AU108076	AU108076	C 478	19.2	1.2	50	9	AU102312	AU102312	AU102312
C 406	19.6	1.2	50	9	AU108076	AU108076	AU108076	C 479	19.2	1.2	50	9	AU102567	AU102567	AU102567
C 407	19.6	1.2	50	9	AU108077	AU108077	AU108077	C 480	19.2	1.2	50	9	AU102568	AU102568	AU102568
C 408	19.6	1.2	50	13	B1416593	B1416593	hasp001xh	C 481	19.2	1.2	50	9	AU102571	AU102571	AU102571
C 409	19.4	1.2	29	17	AM335514	AM335514	AGS	C 482	19.2	1.2	50	9	AU1031109	AU1031109	AU1031109
C 410	19.4	1.2	29	17	AZ361996	AZ361996	1M0106J22	C 483	19.2	1.2	50	9	AU103111	AU103111	AU103111
C 411	19.4	1.2	29	17	AZ361996	AZ361996	1M0106J22	C 484	19.2	1.2	50	9	AU103112	AU103112	AU103112
C 412	19.4	1.2	29	17	AZ361996	AZ361996	1M0106J22	C 485	19.2	1.2	50	9	AU103113	AU103113	AU103113
C 413	19.4	1.2	29	17	AZ361996	AZ361996	1M0106J22	C 486	19.2	1.2	50	9	AU103136	AU103136	AU103136
C 414	19.4	1.2	29	17	AZ361996	AZ361996	1M0106J22	C 487	19.2	1.2	50	9	AU103169	AU103169	AU103169
C 415	19.4	1.2	29	17	AZ361996	AZ361996	1M0106J22	C 488	19.2	1.2	50	9	AU105167	AU105167	AU105167
C 416	19.4	1.2	29	17	AZ361996	AZ361996	1M0106J22	C 489	19.2	1.2	50	9	AU105167	AU105167	AU105167
C 417	19.4	1.2	29	17	AZ361996	AZ361996	1M0106J22	C 490	19.2	1.2	50	9	AU105167	AU105167	AU105167
C 418	19.4	1.2	31	17	AZ456387	AZ456387	1M0259B21	C 491	19.2	1.2	50	13	B1416671	B1416671	AU107989
C 419	19.4	1.2	31	17	AZ800982	AZ800982	2M0059P18	C 492	19.2	1.2	50	17	AZ776790	AZ776790	2M0010C14
C 420	19.4	1.2	31	17	AZ823372	AZ823372	2M0097P20	C 493	19.2	1.2	50	17	AZ936918	AZ936918	2M0193H21
C 421	19.4	1.2	32	17	AZ441480	AZ441480	1M0233F13	C 494	19.2	1.2	30	17	AZ650045	AZ650045	1M0520E05
C 422	19.4	1.2	32	17	AZ441480	AZ441480	1M0233F13	C 495	19.2	1.2	30	17	AZ853274	AZ853274	2M0156D23
C 423	19.4	1.2	32	17	AZ764530	AZ764530	1M0560L18	C 496	19.2	1.2	30	17	AZ864315	AZ864315	2M0173P16
C 424	19.4	1.2	32	17	AZ809474	AZ809474	2M0073D05	C 497	19.2	1.2	30	17	TA28409P	TA28409P	1M0556D11
C 425	19.4	1.2	33	17	AZ404047	AZ404047	1M0172A10	C 498	19.2	1.2	31	17	AZ761993	AZ761993	1M0556D11
C 426	19.4	1.2	33	17	AZ404047	AZ404047	1M0172A10	C 499	19.2	1.2	31	17	AZ761993	AZ761993	1M0556D11
C 427	19.4	1.2	39	13	B1000542	B1000542	2M0143B07	C 500	19.2	1.2	32	17	AZ761993	AZ761993	1M0556D11
C 428	19.4	1.2	40	10	AZ844480	AZ844480	1M0556D11	C 501	19.2	1.2	32	17	AZ761993	AZ761993	1M0556D11
C 429	19.4	1.2	41	12	BF383813	BF383813	602044728	C 502	19.2	1.2	32	17	AZ761993	AZ761993	1M0556D11
C 430	19.4	1.2	42	17	TA43604P	TA43604P	1M0331E15	C 503	19.2	1.2	33	17	AZ761993	AZ761993	1M0556D11
C 431	19.4	1.2	46	9	AA396385	AA396385	od49G03.s	C 504	19.2	1.2	33	17	AZ761993	AZ761993	1M0556D11
C 432	19.4	1.2	47	17	AZ495722	AZ495722	1M0331E15	C 505	19.2	1.2	33	17	AZ761993	AZ761993	1M0556D11
C 433	19.4	1.2	49	9	A1623465	A1623465	ts19a05.x	C 506	19.2	1.2	35	17	AZ861607	AZ861607	1M0556D11
C 434	19.4	1.2	50	9	AU102922	AU102922	AU102922	C 507	19.2	1.2	35	17	AZ861607	AZ861607	1M0556D11
C 435	19.4	1.2	50	9	AU102922	AU102922	AU102922	C 508	19.2	1.2	35	17	AZ861607	AZ861607	1M0556D11
C 436	19.4	1.2	50	9	AU102922	AU102922	AU102922	C 509	19.2	1.2	35	17	AZ861607	AZ861607	1M0556D11
C 437	19.4	1.2	50	9	AU102922	AU102922	AU102922	C 510	19.2	1.2	38	17	AL763877	AL763877	1M0556D11
C 438	19.4	1.2	50	9	AU102922	AU102922	AU102922	C 511	19.2	1.2	40	12	BG772038	BG772038	1M0556D11
C 439	19.4	1.2	50	9	AU102922	AU102922	AU102922	C 512	19.2	1.2	43	9	A1973698	A1973698	1M0556D11
C 440	19.4	1.2	50	9	AU102922	AU102922	AU102922	C 513	19.2	1.2	44	17	AZ506222	AZ506222	1M0347H12
C 441	19.4	1.2	50	9	AU102922	AU102922	AU102922	C 514	19.2	1.2	47	17	AZ797405	AZ797405	2M0053D08
C 442	19.4	1.2	50	9	AU102922	AU102922	AU102922	C 515	19.2	1.2	49	9	AA902962	AA902962	1M0556D11
C 443	19.2	1.2	37	10	AAV673465	AAV673465	1M0556D11	C 516	19.2	1.2	49	9	AA902962	AA902962	1M0556D11
C 444	19.2	1.2	37	10	AAV673465	AAV673465	1M0556D11	C 517	19.2	1.2	49	9	AA948394	AA948394	0M52D09.s

518	18.8	1.2	49	13	BG975755	BG975755 602845484	C 591	18.4	1.2	28	17	A2853419	A2853419 2M0156609
519	18.8	1.2	49	13	BM126198	BM126198 1f07a11.x	592	18.4	1.2	28	17	A2861884	A2861884 2M0168D20
520	18.8	1.2	49	14	H55111	H55111 CHR220050 C	593	18.4	1.2	28	17	A2863212	A2863212 2M0171E20
521	18.8	1.2	49	14	U38158	U38158 OS038158 FD	594	18.4	1.2	28	17	A2871505	A2871505 2M0184E20
522	18.8	1.2	49	17	A2821504	A2821504 2M0094K14	595	18.4	1.2	28	17	A2871733	A2871733 2M0184E16
523	18.8	1.2	50	9	AU102583	AU102583 AU102583	596	18.4	1.2	29	17	A2479842	A2479842 1M0300B20
524	18.8	1.2	50	9	AU102926	AU102926 AU102926	597	18.4	1.2	29	17	A2659788	A2659788 1M0337024
525	18.8	1.2	50	9	AU102928	AU102928 AU102928	598	18.4	1.2	32	17	A2381426	A2381426 1M0138E03
526	18.8	1.2	50	9	AU104049	AU104049 AU104049	599	18.4	1.2	34	9	A1122781	A1122781 qa8g10.x
527	18.8	1.2	50	9	AU104795	AU104795 AU104795	600	18.4	1.2	37	13	B1669786	B1669786 603293364
528	18.8	1.2	50	9	AU104936	AU104936 AU104936	601	18.4	1.2	38	17	A2868391	A2868391 2M0264105
529	18.8	1.2	50	9	AU105416	AU105416 AU105416	602	18.4	1.2	39	13	BG921277	BG921277 602824119
530	18.8	1.2	50	9	AU105557	AU105557 AU105557	603	18.4	1.2	40	17	A2431922	A2431922 1M0217D21
531	18.8	1.2	50	9	AU105905	AU105905 AU105905	604	18.4	1.2	44	17	A2778327	A2778327 2M0013016
532	18.8	1.2	50	9	AU107236	AU107236 AU107236	605	18.4	1.2	45	12	BE905246	BE905246 603499287
533	18.8	1.2	50	9	AU107980	AU107980 AU107980	606	18.4	1.2	45	13	B1683735	B1683735 603306101
534	18.8	1.2	50	9	AU108088	AU108088 AU108088	607	18.4	1.2	45	17	A2332027	A2332027 1M0460L08
535	18.8	1.2	50	17	AQ073822	AQ073822 EP(3)3211	608	18.4	1.2	45	17	A2605047	A2605047 1M0426L10
536	18.6	1.2	33	17	A2861588	A2861588 2M0168J04	609	18.4	1.2	46	9	A908611	A908611 og85e08.s
537	18.6	1.2	33	17	A2869302	A2869302 2M0181C20	610	18.4	1.2	46	9	A1677817	A1677817 wc80q04.x
538	18.6	1.2	34	17	A1589397	A1589397 tr61h11.x	611	18.4	1.2	46	10	AV963987	AV963987 AV963987
539	18.6	1.2	34	17	A2776846	A2776846 2M0237L17	612	18.4	1.2	46	10	BH803079	BH803079 100809B81
540	18.6	1.2	34	17	AZ966687	AZ966687 2M0237L17	613	18.4	1.2	46	17	A176632	A176632 oz31d09.x
541	18.6	1.2	35	13	BM047352	BM047352 603628475	614	18.4	1.2	49	9	A4420261	A4420261 qk40c09.x
542	18.6	1.2	36	17	AZ759424	AZ759424 1M0551H17	615	18.4	1.2	49	9	AA433110	AA433110 tf06q03.x
543	18.6	1.2	37	17	A1654394	A1654394 tq90q04.x	616	18.4	1.2	49	9	A1076632	A1076632 oz31d09.x
544	18.6	1.2	40	17	A2463268	A2463268 1M0272H01	617	18.4	1.2	49	9	A1246743	A1246743 qk40c09.x
545	18.6	1.2	41	13	B1659955	B1659955 603302286	618	18.4	1.2	49	9	A4433110	A4433110 tf06q03.x
546	18.6	1.2	41	13	B1031143	B1031143 B1031143	619	18.4	1.2	49	14	W10306	W10306 ma37d01.r1
547	18.6	1.2	41	17	A2937325	A2937325 2M0195A02	620	18.4	1.2	50	9	AU102556	AU102556 AU102556
548	18.6	1.2	42	13	B1769932	B1769932 603060216	621	18.4	1.2	50	9	AU102557	AU102557 AU102557
549	18.6	1.2	43	9	A1445618	A1445618 t108b03.x	622	18.4	1.2	50	9	AU102924	AU102924 AU102924
550	18.6	1.2	44	17	BH623050	BH623050 1007085E0	623	18.4	1.2	50	9	AU103688	AU103688 AU103688
551	18.6	1.2	46	9	AA948496	AA948496 on53b06.s	624	18.4	1.2	50	9	AU104336	AU104336 AU104336
552	18.6	1.2	46	9	AL660536	AL660536 AL660536	625	18.4	1.2	50	9	AU104338	AU104338 AU104338
553	18.6	1.2	47	17	A2476231	A2476231 1M0294P14	626	18.4	1.2	50	9	AU104820	AU104820 AU104820
554	18.6	1.2	49	9	AA973215	AA973215 on93h09.s	627	18.4	1.2	50	9	AU104821	AU104821 AU104821
555	18.6	1.2	49	9	AA985654	AA985654 cr71c05.s	628	18.4	1.2	50	9	AU104822	AU104822 AU104822
556	18.6	1.2	50	9	AU102631	AU102631 AU102631	629	18.4	1.2	50	9	AU104823	AU104823 AU104823
557	18.6	1.2	50	9	AU102727	AU102727 AU102727	630	18.4	1.2	50	9	AU104825	AU104825 AU104825
558	18.6	1.2	50	9	AU103691	AU103691 AU103691	631	18.4	1.2	50	9	AU104826	AU104826 AU104826
559	18.6	1.2	50	9	AU103698	AU103698 AU103698	632	18.4	1.2	50	9	AU104857	AU104857 AU104857
560	18.6	1.2	50	9	AU103957	AU103957 AU103957	633	18.4	1.2	50	9	AU105411	AU105411 AU105411
561	18.6	1.2	50	9	AU103957	AU103957 AU103957	634	18.4	1.2	50	9	AU105559	AU105559 AU105559
562	18.6	1.2	50	9	AU104455	AU104455 AU104455	635	18.4	1.2	50	9	AU106186	AU106186 AU106186
563	18.6	1.2	50	9	AU104779	AU104779 AU104779	636	18.4	1.2	50	9	AU106211	AU106211 AU106211
564	18.6	1.2	50	9	AU104837	AU104837 AU104837	637	18.4	1.2	50	9	AU106232	AU106232 AU106232
565	18.6	1.2	50	9	AU104864	AU104864 AU104864	638	18.4	1.2	50	9	AU106237	AU106237 AU106237
566	18.6	1.2	50	9	AU104865	AU104865 AU104865	639	18.4	1.2	50	9	AU106747	AU106747 AU106747
567	18.6	1.2	50	9	AU104954	AU104954 AU104954	640	18.4	1.2	50	9	AU107399	AU107399 AU107399
568	18.6	1.2	50	9	AU105397	AU105397 AU105397	641	18.4	1.2	50	9	AU107992	AU107992 AU107992
569	18.6	1.2	50	9	AU106263	AU106263 AU106263	642	18.4	1.2	50	13	B1738814	B1738814 603362674
570	18.6	1.2	50	9	AU106560	AU106560 AU106560	643	18.4	1.2	50	13	AL752017	AL752017 2M0064N24
571	18.6	1.2	50	9	AU106646	AU106646 AU106646	644	18.4	1.2	31	17	AZ804185	AZ804185 602021691
572	18.6	1.2	50	9	AU106752	AU106752 AU106752	645	18.2	1.2	32	17	BF346872	BF346872 602021691
573	18.6	1.2	50	9	AU106756	AU106756 AU106756	646	18.2	1.2	33	12	BF346872	BF346872 602021691
574	18.6	1.2	50	9	AU106757	AU106757 AU106757	647	18.2	1.2	33	12	BF346872	BF346872 602021691
575	18.6	1.2	50	9	AU107036	AU107036 AU107036	648	18.2	1.2	33	17	AQ025391	AQ025391 EP(x)1110
576	18.6	1.2	50	9	AU107367	AU107367 AU107367	649	18.2	1.2	37	9	A1182409	A1182409 uc23h07.r
577	18.6	1.2	50	9	AU107964	AU107964 AU107964	650	18.2	1.2	39	9	AL775941	AL775941 AL775941
578	18.6	1.2	50	10	AW248122	AW248122 2819697.5	651	18.2	1.2	39	14	D42385	D42385 D42385
579	18.6	1.2	50	12	BG031961	BG031961 602300654	652	18.2	1.2	40	9	A1630923	A1630923 t231h05.x
580	18.6	1.2	50	12	BE970773	BE970773 601680129	653	18.2	1.2	40	9	A16561395	A16561395 603255111
581	18.4	1.2	28	17	AZ331927	AZ331927 1M0060G01	654	18.2	1.2	41	13	B1756602	B1756602 603028966
582	18.4	1.2	28	17	AZ403204	AZ403204 1M0170G19	655	18.2	1.2	41	13	BE255418	BE255418 601110972
583	18.4	1.2	28	17	AZ404398	AZ404398 1M0212L20	656	18.2	1.2	44	10	BE255418	BE255418 601110972
584	18.4	1.2	28	17	AZ430095	AZ430095 1M0214J10	657	18.2	1.2	44	10	BE255418	BE255418 601110972
585	18.4	1.2	28	17	AZ438922	AZ438922 1M0229G18	658	18.2	1.2	44	10	BE255418	BE255418 601110972
586	18.4	1.2	28	17	AZ486749	AZ486749 1M0315G02	659	18.2	1.2	44	10	BE255418	BE255418 601110972
587	18.4	1.2	28	17	AZ486749	AZ486749 1M0315G02	660	18.2	1.2	45	10	BE255418	BE255418 601110972
588	18.4	1.2	28	17	AZ660134	AZ660134 1M0538I01	661	18.2	1.2	45	10	BE255418	BE255418 601110972
589	18.4	1.2	28	17	AZ768130	AZ768130 1M0568A02	662	18.2	1.2	45	10	BE255418	BE255418 601110972
590	18.4	1.2	28	17	AZ774078	AZ774078 2M0003001	663	18.2	1.2	46	13	B1651438	B1651438 603298178

c 664	18.2	1.2	47	17	AZ456727	1M0259D17	AZ456727	1M0259D17	737	18	1.1	50	9	AU106146	AU106146
c 665	18.2	1.2	47	17	AZ585161	1M0390C12	AZ585161	1M0390C12	c 738	18	1.1	50	9	AU106189	AU106189
c 666	18.2	1.2	47	17	AZ649857	1M0513008	AZ649857	1M0513008	c 739	18	1.1	50	9	AU106217	AU106217
c 667	18.2	1.2	47	17	AZ797405	2M0053D08	AZ797405	2M0053D08	c 740	18	1.1	50	9	AU106800	AU106800
c 668	18.2	1.2	48	17	AZ507309	1M0348F21	AZ507309	1M0348F21	c 741	18	1.1	50	9	AU106977	AU106977
c 669	18.2	1.2	49	9	AA011834	mh01c08.r	AA011834	mh01c08.r	c 742	18	1.1	50	9	AU107585	AU107585
c 670	18.2	1.2	49	9	AI198147	q15b10.x	AI198147	q15b10.x	c 743	18	1.1	50	13	BG975240	BG975240
c 671	18.2	1.2	49	9	AI1920909	wo15h03.x	AI1920909	wo15h03.x	c 744	18	1.1	50	13	BI599066	BI599066
c 672	18.2	1.2	49	9	AA531157	nj48a01.s	AA531157	nj48a01.s	c 745	18	1.1	50	13	BI601558	BI601558
c 673	18.2	1.2	49	17	AZ773338	1M0584L13	AZ773338	1M0584L13	c 746	18	1.1	50	14	BO807914	BO807914
c 674	18.2	1.2	50	9	AI1660532	we63c12.x	AI1660532	we63c12.x	c 747	17.8	1.1	29	17	AZ455946	AZ455946
c 675	18.2	1.2	50	9	AU102597	AU102597	AU102597	AU102597	c 748	17.8	1.1	29	17	AZ641783	AZ641783
c 676	18.2	1.2	50	9	AU102601	AU102601	AU102601	AU102601	c 749	17.8	1.1	29	17	AZ666737	AZ666737
c 677	18.2	1.2	50	9	AU103660	AU103660	AU103660	AU103660	c 750	17.8	1.1	30	10	BE539470	BE539470
c 678	18.2	1.2	50	9	AU104342	AU104342	AU104342	AU104342	c 751	17.8	1.1	30	17	AZ610578	AZ610578
c 679	18.2	1.2	50	9	AU104612	AU104612	AU104612	AU104612	c 752	17.8	1.1	30	17	AZ783172	AZ783172
c 680	18.2	1.2	50	9	AU104666	AU104666	AU104666	AU104666	c 753	17.8	1.1	30	17	AZ684659	AZ684659
c 681	18.2	1.2	50	9	AU104793	AU104793	AU104793	AU104793	c 754	17.8	1.1	31	9	AI1587417	AI1587417
c 682	18.2	1.2	50	9	AU105182	AU105182	AU105182	AU105182	c 755	17.8	1.1	33	10	BE562917	BE562917
c 683	18.2	1.2	50	9	AU105199	AU105199	AU105199	AU105199	c 756	17.8	1.1	34	13	BM396027	BM396027
c 684	18.2	1.2	50	9	AU105204	AU105204	AU105204	AU105204	c 757	17.8	1.1	36	17	AL771568	AL771568
c 685	18.2	1.2	50	9	AU105205	AU105205	AU105205	AU105205	c 758	17.8	1.1	37	17	AZ428104	AZ428104
c 686	18.2	1.2	50	9	AU105206	AU105206	AU105206	AU105206	c 759	17.8	1.1	38	13	BM398401	BM398401
c 687	18.2	1.2	50	9	AU105207	AU105207	AU105207	AU105207	c 760	17.8	1.1	39	17	AZ586752	AZ586752
c 688	18.2	1.2	50	9	AU105889	AU105889	AU105889	AU105889	c 761	17.8	1.1	43	9	AI1583773	AI1583773
c 689	18.2	1.2	50	9	AU106277	AU106277	AU106277	AU106277	c 762	17.8	1.1	43	14	H22322	H22322
c 690	18.2	1.2	50	9	AU107922	AU107922	AU107922	AU107922	c 763	17.8	1.1	43	17	BG422154	BG422154
c 691	18.2	1.2	50	9	AU107923	AU107923	AU107923	AU107923	c 764	17.8	1.1	44	12	BG422154	BG422154
c 692	18.2	1.2	50	13	BI416671	hasp001xm	BI416671	hasp001xm	c 765	17.8	1.1	44	17	AZ323644	AZ323644
c 693	18.2	1.2	50	17	AZ456166	1M0258B20	AZ456166	1M0258B20	c 766	17.8	1.1	46	17	AZ352610	AZ352610
c 694	18.2	1.2	26	17	AZ307654	1M0009F22	AZ307654	1M0009F22	c 767	17.8	1.1	46	17	AI1355812	AI1355812
c 695	18.2	1.2	26	17	AZ660002	1M0537L18	AZ660002	1M0537L18	c 768	17.8	1.1	46	9	AI1597960	AI1597960
c 696	18.2	1.2	26	17	AZ616353	2M0085K06	AZ616353	2M0085K06	c 769	17.8	1.1	46	9	AI1681936	AI1681936
c 697	18.2	1.2	27	17	AZ613076	1M0441G15	AZ613076	1M0441G15	c 770	17.8	1.1	46	9	AI158811	AI158811
c 698	18.2	1.2	30	13	BI762230	603049140	BI762230	603049140	c 771	17.8	1.1	46	9	AI156905	AI156905
c 699	18.2	1.2	34	17	AZ656447	1M05332C02	AZ656447	1M05332C02	c 772	17.8	1.1	46	14	R89517	R89517
c 700	18.2	1.2	36	10	AV832594	AV832594	AV832594	AV832594	c 773	17.8	1.1	46	17	AZ764402	AZ764402
c 701	18.2	1.2	37	9	AI1613293	ty35g03.x	AI1613293	ty35g03.x	c 774	17.8	1.1	48	17	AZ797985	AZ797985
c 702	18.2	1.2	41	17	AZ424284	1M0203M14	AZ424284	1M0203M14	c 775	17.8	1.1	49	9	AA872048	AA872048
c 703	18.2	1.2	41	17	BH625029	1007102B0	BH625029	1007102B0	c 776	17.8	1.1	49	9	AI056171	AI056171
c 704	18.2	1.2	42	10	BM245564	282886-5	BM245564	282886-5	c 777	17.8	1.1	49	9	AI624785	AI624785
c 705	18.2	1.2	42	17	AZ345455	1M0080U12	AZ345455	1M0080U12	c 778	17.8	1.1	49	13	BG975755	BG975755
c 706	18.2	1.2	43	9	AI1696963	wc76c08.x	AI1696963	wc76c08.x	c 779	17.8	1.1	50	9	AU102241	AU102241
c 707	18.2	1.2	43	9	AI1799643	co74d02.x	AI1799643	co74d02.x	c 780	17.8	1.1	50	9	AU102255	AU102255
c 708	18.2	1.2	44	9	AI630890	AL630890	AI630890	AL630890	c 781	17.8	1.1	50	9	AU102322	AU102322
c 709	18.2	1.2	45	9	AA681423	vr41F08.s	AA681423	vr41F08.s	c 782	17.8	1.1	50	9	AU102331	AU102331
c 710	18.2	1.2	46	9	AA206245	2954d10.r	AA206245	2954d10.r	c 783	17.8	1.1	50	9	AU102336	AU102336
c 711	18.2	1.2	46	17	AZ474463	1M0292M11	AZ474463	1M0292M11	c 784	17.8	1.1	50	9	AU102349	AU102349
c 712	18.2	1.2	47	17	AZ400633	1M0167F06	AZ400633	1M0167F06	c 785	17.8	1.1	50	9	AU102609	AU102609
c 713	18.2	1.2	48	13	BI463602	603206257	BI463602	603206257	c 786	17.8	1.1	50	9	AU102856	AU102856
c 714	18.2	1.2	48	13	BI547258	603197123	BI547258	603197123	c 787	17.8	1.1	50	9	AU103053	AU103053
c 715	18.2	1.2	48	17	TA313G08P	bruce1	TA313G08P	bruce1	c 788	17.8	1.1	50	9	AU103195	AU103195
c 716	18.2	1.2	49	9	AI287389	qv07h01.x	AI287389	qv07h01.x	c 789	17.8	1.1	50	9	AU103246	AU103246
c 717	18.2	1.2	49	17	AZ465869	1M0276P01	AZ465869	1M0276P01	c 790	17.8	1.1	50	9	AU103827	AU103827
c 718	18.2	1.2	49	17	AU102257	AU102257	AU102257	AU102257	c 791	17.8	1.1	50	9	AU103923	AU103923
c 719	18.2	1.2	50	9	AU102519	AU102519	AU102519	AU102519	c 792	17.8	1.1	50	9	AU103924	AU103924
c 720	18.2	1.2	50	9	AU102735	AU102735	AU102735	AU102735	c 793	17.8	1.1	50	9	AU103944	AU103944
c 721	18.2	1.2	50	9	AU103115	AU103115	AU103115	AU103115	c 794	17.8	1.1	50	9	AU104068	AU104068
c 722	18.2	1.2	50	9	AU103959	AU103959	AU103959	AU103959	c 795	17.8	1.1	50	9	AU104070	AU104070
c 723	18.2	1.2	50	9	AU104377	AU104377	AU104377	AU104377	c 796	17.8	1.1	50	9	AU104090	AU104090
c 724	18.2	1.2	50	9	AU104760	AU104760	AU104760	AU104760	c 797	17.8	1.1	50	9	AU104119	AU104119
c 725	18.2	1.2	50	9	AU104762	AU104762	AU104762	AU104762	c 798	17.8	1.1	50	9	AU104281	AU104281
c 726	18.2	1.2	50	9	AU104769	AU104769	AU104769	AU104769	c 799	17.8	1.1	50	9	AU104284	AU104284
c 727	18.2	1.2	50	9	AU104770	AU104770	AU104770	AU104770	c 800	17.8	1.1	50	9	AU104300	AU104300
c 728	18.2	1.2	50	9	AU104809	AU104809	AU104809	AU104809	c 801	17.8	1.1	50	9	AU104460	AU104460
c 729	18.2	1.2	50	9	AU104829	AU104829	AU104829	AU104829	c 802	17.8	1.1	50	9	AU104515	AU104515
c 730	18.2	1.2	50	9	AU105180	AU105180	AU105180	AU105180	c 803	17.8	1.1	50	9	AU104569	AU104569
c 731	18.2	1.2	50	9	AU105181	AU105181	AU105181	AU105181	c 804	17.8	1.1	50	9	AU104593	AU104593
c 732	18.2	1.2	50	9	AU105182	AU105182	AU105182	AU105182	c 805	17.8	1.1	50	9	AU104621	AU104621
c 733	18.2	1.2	50	9	AU105184	AU105184	AU105184	AU105184	c 806	17.8	1.1	50	9	AU104640	AU104640
c 734	18.2	1.2	50	9	AU105185	AU105185	AU105185	AU105185	c 807	17.8	1.1	50	9	AU104674	AU104674
c 735	18.2	1.2	50	9	AU105588	AU105588	AU105588	AU105588	c 808	17.8	1.1	50	9	AU104862	AU104862
c 736	18.2	1.2	50	9					c 809	17.8	1.1	50	9		

C 810	17.8	1.1	50	9	AU104945	AU104945	C 883	17.6	1.1	33	17	AZ606035	AZ606035 1M0427P12
C 811	17.8	1.1	50	9	AU105004	AU105004	C 884	17.6	1.1	33	17	AZ876021	AZ876021 2M0190C33
C 812	17.8	1.1	50	9	AU105302	AU105302	C 885	17.6	1.1	33	17	AZ964180	AZ964180 2M0233P17
C 813	17.8	1.1	50	9	AU105703	AU105703	C 886	17.6	1.1	34	17	AA748312	AA748312 0a54B07.s
C 814	17.8	1.1	50	9	AU105761	AU105761	C 887	17.6	1.1	34	9	AI668112	AI668112 0a54B07.s
C 815	17.8	1.1	50	9	AU105891	AU105891	C 888	17.6	1.1	34	9	AV962438	AV962438 0a54B07.s
C 816	17.8	1.1	50	9	AU105903	AU105903	C 889	17.6	1.1	37	10	AA873697	AA873697 0b36G11.s
C 817	17.8	1.1	50	9	AU106775	AU106775	C 890	17.6	1.1	37	13	AA291929	AA291929 zt45G08.s
C 818	17.8	1.1	50	9	AU106935	AU106935	C 891	17.6	1.1	38	17	BI459192	BI459192 603200303
C 819	17.8	1.1	50	9	AU107203	AU107203	C 892	17.6	1.1	39	17	AZ486481	AZ486481 1M0125T74
C 820	17.8	1.1	50	9	AU107203	AU107203	C 893	17.6	1.1	40	9	AI018817	AI018817 1M0314H03
C 821	17.8	1.1	50	9	AU107388	AU107388	C 894	17.6	1.1	41	17	AI651880	AI651880 1M0445L22
C 822	17.8	1.1	50	9	AU107471	AU107471	C 895	17.6	1.1	41	14	RI9040	RI9040 yG21d12.r1
C 823	17.8	1.1	50	9	AU107472	AU107472	C 896	17.6	1.1	42	12	BE899162	BE899162 601681959
C 824	17.8	1.1	50	9	AU107473	AU107473	C 897	17.6	1.1	42	17	AZ983516	AZ983516 2M0240C09
C 825	17.8	1.1	50	9	AU107474	AU107474	C 898	17.6	1.1	43	9	AI282953	AI282953 qT82909.x
C 826	17.8	1.1	50	9	AU107475	AU107475	C 899	17.6	1.1	44	17	BH612995	BH612995 1M07063H1
C 827	17.8	1.1	50	9	AU107476	AU107476	C 900	17.6	1.1	45	17	AZ632976	AZ632976 1M0487J23
C 828	17.8	1.1	50	9	AU107479	AU107479	C 901	17.6	1.1	46	9	AA904088	AA904088 0e69g12.s
C 829	17.8	1.1	50	9	AU107481	AU107481	C 902	17.6	1.1	46	9	AI003193	AI003193 an12a01.s
C 830	17.8	1.1	50	9	AU107482	AU107482	C 903	17.6	1.1	46	9	AI284114	AI284114 qT72e11.x
C 831	17.8	1.1	50	9	AU107483	AU107483	C 904	17.6	1.1	46	9	AI539046	AI539046 pF76g11.x
C 832	17.8	1.1	50	9	AU107484	AU107484	C 905	17.6	1.1	46	9	AI539046	AI539046 pF76g11.x
C 833	17.8	1.1	50	9	AU107486	AU107486	C 906	17.6	1.1	46	9	AI582875	AI582875 tS07a07.x
C 834	17.8	1.1	50	9	AU107487	AU107487	C 907	17.6	1.1	46	9	AI884025	AI884025 fC72c11.x
C 835	17.8	1.1	50	9	AU107489	AU107489	C 908	17.6	1.1	46	13	BI829941	BI829941 603080075
C 836	17.8	1.1	50	9	AU107490	AU107490	C 909	17.6	1.1	46	17	BH636244	BH636244 1M08010A0
C 837	17.8	1.1	50	9	AU107493	AU107493	C 910	17.6	1.1	47	17	AZ498873	AZ498873 1M0336R24
C 838	17.8	1.1	50	9	AU107495	AU107495	C 911	17.6	1.1	48	14	C01535	C01535 H0MGS000853
C 839	17.8	1.1	50	9	AU107496	AU107496	C 912	17.6	1.1	48	17	AZ497723	AZ497723 1M0334L09
C 840	17.8	1.1	50	9	AU107497	AU107497	C 913	17.6	1.1	49	9	AA906486	AA906486 cJ99g06.s
C 841	17.8	1.1	50	9	AU107499	AU107499	C 914	17.6	1.1	49	9	AA985654	AA985654 0r71C05.s
C 842	17.8	1.1	50	9	AU107500	AU107500	C 915	17.6	1.1	49	9	AA280723	AA280723 zS96g04.s
C 843	17.8	1.1	50	9	AU107501	AU107501	C 916	17.6	1.1	49	13	BM146707	BM146707 TCAP1E70
C 844	17.8	1.1	50	9	AU107502	AU107502	C 917	17.6	1.1	49	17	AZ839676	AZ839676 2M0135I23
C 845	17.8	1.1	50	9	AU107503	AU107503	C 918	17.6	1.1	50	9	AU102335	AU102335 AU102335
C 846	17.8	1.1	50	9	AU107504	AU107504	C 919	17.6	1.1	50	9	AU102337	AU102337 AU102337
C 847	17.8	1.1	50	9	AU107505	AU107505	C 920	17.6	1.1	50	9	AU102406	AU102406 AU102406
C 848	17.8	1.1	50	9	AU107507	AU107507	C 921	17.6	1.1	50	9	AU102407	AU102407 AU102407
C 849	17.8	1.1	50	9	AU107511	AU107511	C 922	17.6	1.1	50	9	AU102599	AU102599 AU102599
C 850	17.8	1.1	50	9	AU107515	AU107515	C 923	17.6	1.1	50	9	AU102630	AU102630 AU102630
C 851	17.8	1.1	50	9	AU107516	AU107516	C 924	17.6	1.1	50	9	AU102643	AU102643 AU102643
C 852	17.8	1.1	50	9	AU107518	AU107518	C 925	17.6	1.1	50	9	AU102701	AU102701 AU102701
C 853	17.8	1.1	50	9	AU107519	AU107519	C 926	17.6	1.1	50	9	AU102774	AU102774 AU102774
C 854	17.8	1.1	50	9	AU107520	AU107520	C 927	17.6	1.1	50	9	AU102777	AU102777 AU102777
C 855	17.8	1.1	50	9	AU107522	AU107522	C 928	17.6	1.1	50	9	AU102780	AU102780 AU102780
C 856	17.8	1.1	50	9	AU107523	AU107523	C 929	17.6	1.1	50	9	AU102790	AU102790 AU102790
C 857	17.8	1.1	50	9	AU107524	AU107524	C 930	17.6	1.1	50	9	AU102791	AU102791 AU102791
C 858	17.8	1.1	50	9	AU107525	AU107525	C 931	17.6	1.1	50	9	AU102797	AU102797 AU102797
C 859	17.8	1.1	50	9	AU107526	AU107526	C 932	17.6	1.1	50	9	AU102799	AU102799 AU102799
C 860	17.8	1.1	50	9	AU107527	AU107527	C 933	17.6	1.1	50	9	AU102867	AU102867 AU102867
C 861	17.8	1.1	50	9	AU107528	AU107528	C 934	17.6	1.1	50	9	AU102946	AU102946 AU102946
C 862	17.8	1.1	50	9	AU107529	AU107529	C 935	17.6	1.1	50	9	AU103430	AU103430 AU103430
C 863	17.8	1.1	50	9	AU107530	AU107530	C 936	17.6	1.1	50	9	AU103481	AU103481 AU103481
C 864	17.8	1.1	50	9	AU107531	AU107531	C 937	17.6	1.1	50	9	AU103661	AU103661 AU103661
C 865	17.8	1.1	50	9	AU107532	AU107532	C 938	17.6	1.1	50	9	AU103716	AU103716 AU103716
C 866	17.8	1.1	50	9	AU107533	AU107533	C 939	17.6	1.1	50	9	AU104519	AU104519 AU104519
C 867	17.8	1.1	50	9	AU107534	AU107534	C 940	17.6	1.1	50	9	AU104581	AU104581 AU104581
C 868	17.8	1.1	50	9	AU107535	AU107535	C 941	17.6	1.1	50	9	AU104734	AU104734 AU104734
C 869	17.8	1.1	50	9	AU107536	AU107536	C 942	17.6	1.1	50	9	AU104801	AU104801 AU104801
C 870	17.8	1.1	50	9	AU107539	AU107539	C 943	17.6	1.1	50	9	AU104810	AU104810 AU104810
C 871	17.8	1.1	50	9	AU107540	AU107540	C 944	17.6	1.1	50	9	AU104848	AU104848 AU104848
C 872	17.8	1.1	50	12	BF537767	BF537767	C 945	17.6	1.1	50	9	AU105173	AU105173 AU105173
C 873	17.6	1.1	24	17	AZ486765	AZ486765 1M0315P09	C 946	17.6	1.1	50	9	AU105246	AU105246 AU105246
C 874	17.6	1.1	24	17	AZ597705	AZ597705 1M0411G07	C 947	17.6	1.1	50	9	AU105293	AU105293 AU105293
C 875	17.6	1.1	25	17	AZ861766	AZ861766 2M0168K19	C 948	17.6	1.1	50	9	AU105413	AU105413 AU105413
C 876	17.6	1.1	26	17	AZ810458	AZ810458 2M0076C02	C 949	17.6	1.1	50	9	AU105426	AU105426 AU105426
C 877	17.6	1.1	28	9	AI358659	AI358659 qX60e07.x	C 950	17.6	1.1	50	9	AU105535	AU105535 AU105535
C 878	17.6	1.1	31	17	TA178H08P	TA178H08P	C 951	17.6	1.1	50	9	AU106535	AU106535 AU106535
C 879	17.6	1.1	32	17	AZ345558	AZ345558 1M0080G16	C 952	17.6	1.1	50	9	AU106561	AU106561 AU106561
C 880	17.6	1.1	32	17	AZ650179	AZ650179 1M0520P11	C 953	17.6	1.1	50	9	AU106873	AU106873 AU106873
C 881	17.6	1.1	32	17	AZ946537	AZ946537 2M0208B19	C 954	17.6	1.1	50	9	AU107071	AU107071 AU107071
C 882	17.6	1.1	32	17	AZ949191	AZ949191 2M0212K02	C 955	17.6	1.1	50	9	AU107368	AU107368 AU107368

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Fax: 81-559-81-6855
Email: tshini@genes.nig.ac.jp.
Location/Qualifiers

```

Email: tschini@genes.nlg.ac.jp
Location/Qualifiers
1. .45
FEATURES
source

```

```

/organism="Oryzias latipes"
/strain="Hd-RR"
/db_xref="taxon:8090"
/clone="MF01SSA019B12"
/clone_1b="MF01SSA CDNA"
/sex="mixture of female and male"
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/dev_stage="segmentation stage 20 - 25"
1 a 23 c 0 g 19 t 2 others

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[illegible]

RESULT 10	LOCUS	DEFINITION
A1701058	46 bp	NCI CGAP Panel 1 Hom sapiens CDNA clone IMAGE:224746 3' similar to WP:CI8D1.4 CE18515 RNA RECOGNITION MOTIF. ;contains

ACCESSION	AF022413	msk1 repetitive element ; mRNA sequence.
VERSION	11/01/03	
KEYWORDS	AI1701038.1	GI:4988958
SOURCE	EST.	
ORGANISM	human.	
	Homo sapiens	
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
	Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.	
REFERENCE	1 (bases 1 to 46)	
AUTHORS	NCI-CGAP	http://www.ncbi.nlm.nih.gov/ncicgap .

JOURNAL COMMENT

Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph. D.
Email: cgaabs-r@mail.nih.gov
Life Technologies catalog #: 11548-013
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution Information can be found at <http://www.ncbi.nlm.nih.gov/CGAP/>

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Trace considered overall poor quality
Insert Length: 3363      Std Error: 0.00
Seq primer: -40UP from Glibco
High quality sequence stop: 1.
Location/Qualifiers
1..46
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/db_xref="taxon:9606"
/clone="IMAGE:2324746"
/clone_1id="NCI CGAP_Pan1"
/tissue_type="adenocarcinoma"
/lab_host="DH10B"
/note="Organ: pancreas; Vector: pCMV-Sport6; Site_1: Salt; Site_2: Notti; Cloned unidirectionally. primer: Oligo df. Average insert size 1.72 kb. Life Technologies catalog #: 11548-013"

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[illegible]

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
<http://image.llnl.gov>
 Plate: L1AM1698 row: d column: 21
 High quality sequence stop: 23.

FEATURES
 source

1. 43
 Location/Qualifiers
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 /db_xref="taxon:9606"
 /clone="IMAGE:5276516"
 /clone_lib="NIH_MGC_95"
 /issue_type="hippocampus"
 /lab_host="DH10B"
 /note="Organ: brain; Vector: pBluescriptR (modified
 pBluescript KS+); Site_1: BamHI; Site_2: SalI-XhoI (gtcgag
); Oligo-OT primed using primer 5'-TTTTTTTTTTTTTTVN-3',
 size-selected for average insert size 2.5 kb and
 normalized to R0T 5. This is a primary library enriched
 for full-length clones and constructed using the
 Cap-trapper method (Carninci, in preparation). Library
 constructed by M. Brownstein (NIH/NHRI, National
 Institutes of Health). Note: this is a NIH_MGC Library."
 12 c 23 g 3 t

BASE COUNT
 ORIGIN

Query Match 1.4%; Score 22.2; DB 13; Length 43;
 Best Local Similarity 77.1%; Pred. No. 1.3e+06;
 Matches 27; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1352 AGCGGCGGCGGACCGGCGGCGGCGGCGGCGAG 1386
 ||||| ||||| ||||| || ||||| ||
 Db 1 AGCGGAGGCGGCGGCGGCGGCGGCGGCGGCGTGTAG 35

Search completed: March 13, 2003, 23:58:36
 Job time: 2479 secs